CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, April 11, 1907.

CONTENTS.

CONSTRUCTION NEWS:
Plans and Specifications on File..... 131
List of Contracts Pending..... 131
Railways..... 132
Electric Railways..... 132
Light and Power Plants..... 132
Bridges..... 133
Buildings..... 133
Water Supply and Irrigation..... 134
Sewerage..... 135
Streets and Roads..... 135
Manufacturing Plants..... 136
Miscellaneous Contracts..... 136
U. S. Possessions and Cuba..... 137
Contract Prices..... 137
CIVIL SERVICE EXAMINATIONS..... 138
INDUSTRIAL NOTES..... 138
PROPOSALS..... 138

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.) and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue
Apr				
*13—	Buildings.	Fort Hancock, N. J.	P. & S.	3-21
*15—	Cement.	Montrose, Colo.	S. & B. S.	3-14
*16—	Paving.	Holyoke, Mass.	S. & B. S.	4- 4
20—	Locomotive jib crane.	Philadelphia, Pa.	S.	3-28
25—	Bridges.	Glendive, Mont.	P., S. & B. S.	3-21
27—	Pattern shop.	Portsmouth, N. H.	S.	4- 4
May				
4—	Paving.	Boston, Mass.	S.	4-11
4—	Boiler-room machinery.	Pensacola, Fla.	S.	4-11

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work.	Place.	On file.	See issue
Apr. 15.	Lighting system,	Battleford, Sask.		Mar. 21
Apr. 15.	Power plant,	Bowling Green, Ky.		Mar. 7
Apr. 15.	Lighting,	Mill Brook, Ont.		Apr. 11
Apr. 23.	Franchise,	Leavenworth, Wash.		Apr. 11
Apr. 29.	Heating apparatus,	Macon, Ga.		Mar. 28
	Advertised, Eng. News, Mar. 28 and Apr. 4.			
Apr. 30.	Conduit system,	Seattle, Wash.		Mar. 21
May 1.	Lighting,	Natchez, Miss.		Mar. 7
	Advertised, Eng. News, Mar. 7 and 14.			
May 4.	Machinery,	Pensacola, Fla.		Apr. 11
May 20.	Equipment,	Los Angeles, Cal.		Mar. 28
	Advertised, Eng. News, Mar. 28 to Apr. 18.			

BRIDGES.

Apr. 11.	Bridge,	Greensburg, Ind.	Mar. 28
Apr. 11.	Repairing bridge,	Somerfield, Pa.	Mar. 28
Apr. 11.	Bridges,	Wenatchee, Wash.	Mar. 28
Apr. 11.	Arch,	Granville, Ohio	Mar. 21
Apr. 13.	Bridges,	Cleveland, Ohio	Mar. 28
Apr. 14.	Bridges,	Kokomo, Ind.	Apr. 4
Apr. 15.	Bridge,	Minneapolis, Minn.	Apr. 4
Apr. 15.	Bridge, etc.,	Crookston, Minn.	Apr. 4
Apr. 15.	Bridge,	Denver, Colo.	Mar. 21
	Advertised, Eng. News, Mar. 21.		
Apr. 15.	Bridge,	Eldorado, Kan.	Apr. 11
Apr. 18.	Bridge extension,	New York, N. Y.	Apr. 11
Apr. 18.	Bridges,	Liberty, Ind.	Apr. 11
Apr. 20.	Bridge,	Washington, D. C.	Apr. 11
	Advertised, Eng. News, Apr. 11 and 18.		
Apr. 22.	Bridge,	New Lexington, Ohio.	Apr. 11
Apr. 22.	Superstructure,	Cincinnati, Ohio	Apr. 11
Apr. 23.	Bridges,	Beatrice, Neb.	Apr. 4
Apr. 25.	Bridges,	Glendive, Mont.	Mar. 14
	Advertised, Eng. News, Mar. 14 to Apr. 4.		
Apr. 26.	Bridge,	Woonsocket, R. I.	Apr. 11
	Advertised, Eng. News, Apr. 11.		
Apr. 29.	Viaduct,	New Orleans, La.	Feb. 28
	Advertised, Eng. News, Feb. 28 to Apr. 11.		
Apr. 30.	Bridge flooring,	Washington C. H., Ohio.	Apr. 11
May 4.	Viaduct,	Milwaukee, Wis.	Apr. 11
May 8.	Bridges,	Coshocton, Ohio.	Apr. 11
May 15.	Bridge work,	Washington, D. C.	Apr. 11
	Advertised, Eng. News, Apr. 11 to May 9.		
June 4.	Bridge,	Pensacola, Fla.	Apr. 11

BUILDINGS.

Apr. 11.	Interior finish,	New York, N. Y.	Mar. 14
Apr. 12.	Repairs,	Washington, D. C.	Mar. 14
Apr. 13.	Buildings,	Fort Hancock, N. J.	Mar. 14
	Advertised, Eng. News, Mar. 14 to Apr. 4.		
Apr. 13.	Factory,	Philadelphia, Pa.	Apr. 11
Apr. 15.	Post-office,	Tyler, Tex.	Mar. 7
	Advertised, Eng. News, Mar. 7 and 14.		
Apr. 15.	Marble work,	West Point, N. Y.	Mar. 21
	Advertised, Eng. News, Mar. 21 to Apr. 11.		
Apr. 15.	Factories,	Chattanooga, Tenn.	Apr. 4
Apr. 17.	Bath house,	New York, N. Y.	Apr. 11
Apr. 17.	Building, etc.,	Central Islip, N. Y.	Apr. 11
	Advertised, Eng. News, Apr. 11.		
Apr. 16.	Hospital,	New York, N. Y.	Apr. 4
Apr. 18.	Post-office,	Flint, Mich.	Mar. 21
Apr. 22.	Stairs,	West Point, N. Y.	Apr. 4
	Advertised, Eng. News, Apr. 4 to 18.		
Apr. 20.	Plans,	Sacramento, Cal.	Apr. 4
Apr. 22.	School,	Eatontown, N. J.	Apr. 11
	Advertised, Eng. News, Apr. 11 and 18.		
Apr. 24.	Plumbing, etc.,	West Point, N. Y.	Apr. 4
	Advertised, Eng. News, Apr. 4 to 18.		
Apr. 27.	Pattern shop.	Portsmouth, N. H.	Apr. 4
May 1.	Plans,	Milwaukee, Wis.	Feb. 28
May 1.	Buildings,	North Chicago, Ill.	Mar. 14
May 2.	Marble work,	Burlington, Vt.	Apr. 4
	Advertised, Eng. News, Apr. 4 and 11.		
May 6.	Post-office,	Trenton, N. J.	Apr. 4
May 7.	Post-office,	Lafayette, Ind.	Apr. 4
	Advertised, Eng. News, Apr. 4 and 11.		
May 8.	Screening,	Fort Oglethorpe, Ga.	Apr. 11
	Advertised, Eng. News, Apr. 11 to May 2.		
May 15.	School,	Maryville, Mo.	Apr. 11
May 15.	Post-office,	Denver, Colo.	Apr. 4
June 4.	State Capitol,	Pierre, S. Dak.	Mar. 7

WATER SUPPLY AND IRRIGATION.

Apr. 13.	Drain,	Valley City, N. Dak.	Mar. 28
Apr. 14.	Hydrants,	Cleveland, Ohio	Apr. 11
Apr. 15.	Valves,	Albany, N. Y.	Apr. 11
Apr. 15.	Canal,	Portland, Ore.	Feb. 21
	Advertised, Eng. News, Feb. 21 to Mar. 14.		
Apr. 15.	Carting & laying pipe,	New London, Conn.	Mar. 21
Apr. 15.	Water-works,	Battleford, Sask.	Mar. 21
Apr. 15.	Water-works,	Billings, Mont.	Mar. 7
Apr. 15.	Reservoir, etc.,	Bradford, Pa.	Apr. 4
	Advertised, Eng. News, Apr. 4.		
Apr. 15.	Ditches, etc.,	Sibley, Iowa	Apr. 4
Apr. 16.	Water-works,	New Orleans, La.	Apr. 4
Apr. 16.	Water-works,	McKeesport, Pa.	Mar. 14
	Advertised, Eng. News, Mar. 14.		
Apr. 16.	Laying pipe, etc.,	Cincinnati, Ohio	Mar. 21
Apr. 16.	Ditch and laterals,	Vandalia, Ill.	Mar. 28
Apr. 16.	Water-works,	McKeesport, Pa.	Mar. 28
	Advertised, Eng. News, Mar. 28 and Apr. 4.		
Apr. 17.	Structures,	Huntley, Mont.	Feb. 28
	Advertised, Eng. News, Feb. 28 to Mar. 21.		
Apr. 17.	Water main,	Britton, S. Dak.	Apr. 11
Apr. 18.	Water mains,	New York, N. Y.	Apr. 11
Apr. 18.	Paving, etc.,	Erie, Pa.	Mar. 28
	Advertised, Eng. News, Mar. 28.		
Apr. 19.	Water-works,	Simcoe, Ont.	Apr. 4
Apr. 20.	Trenching, etc.,	Richmond, Que.	Apr. 4
Apr. 20.	Water-works,	Maple Creek, Sask.	Apr. 4
Apr. 20.	Levees, drains, etc.,	Rock Island, Ill.	Mar. 28
Apr. 20.	Water-works,	Lafayette, Ind.	Apr. 11
Apr. 22.	Cast-iron water pipe, etc.,	Cincinnati, O.	Apr. 11
Apr. 23.	Repairing reservoir,	Bridgeton, N. J.	Apr. 11
	Advertised, Eng. News, Apr. 11 and 18.		
Apr. 23.	Water-works and sewers,	Staples, Minn.	Apr. 11
	Advertised, Eng. News, Apr. 11.		
Apr. 23.	Galv. iron water pipe,	South Africa (Foreign)	Apr. 4
Apr. 23.	Water-works,	Thorold, Ont.	Apr. 4
Apr. 24.	Water-works, Ft. Moultrie,	S. C.	Mar. 28
	Advertised, Eng. News, Mar. 28 to Apr. 18.		
Apr. 27.	Cast-iron pipe,	Washington, D. C.	Apr. 11
	Advertised, Eng. News, April 11 and 18.		
Apr. 29.	Ditches,	Garner, Iowa	Apr. 4
Apr. 30.	Ditches, etc.,	Belle Fourche, S. Dak.	Mar. 28
May 1.	Water-works,	Hartsville, S. C.	Apr. 4
May 2.	Completing pumping station,	Phila., Pa.	Apr. 4
	Advertised, Eng. News, Apr. 4 to 25.		
May 2.	Reservoir,	Astoria, Ore.	Mar. 28
May 3.	Water-works,	Forsyth, Mont.	Apr. 11
May 6.	Filters, etc.,	Albany, N. Y.	Apr. 4
	Advertised, Eng. News, Apr. 4 to 18.		
May 15.	Ditch,	Albany, Ill.	Mar. 28
	Advertised, Eng. News, Mar. 28 to Apr. 18.		
May 21.	Ditches,	Mitchell, Neb.	Apr. 4
	Advertised, Eng. News, Apr. 4 to 25.		
June 3.	Well, etc.,	Fort Bliss, Tex.	Mar. 21
June 5.	Dike,	Crawford, Neb.	Mar. 21
	Advertised, Eng. News, Mar. 21 to Apr. 11.		

SEWERAGE.

Apr. 11.	Sewer,	Parkersburg, W. Va.	Mar. 14
	Advertised, Eng. News, Mar. 14 and 21.		
Apr. 11.	Sewers,	New York, N. Y.	Apr. 4
Apr. 11.	Sewers,	Galveston, Tex.	Apr. 4
Apr. 11.	Sewers,	Spokane, Wash.	Apr. 4
Apr. 12.	Sewers,	Washington, D. C.	Mar. 21
	Advertised, Eng. News, Mar. 21 and 28.		
Apr. 15.	Sewer,	Washington, D. C.	Mar. 28
	Advertised, Eng. News, Mar. 28 and Apr. 4.		
Apr. 15.	Sewers,	Galena, Kan.	Apr. 4
Apr. 15.	Sewers,	Perth Amboy, N. J.	Apr. 11
Apr. 15.	Sewers,	Lenox, Tenn.	Apr. 11
Apr. 16.	Sewer,	New York, N. Y.	Apr. 11
Apr. 16.	Ditch and laterals,	Vandalia, Ill.	Apr. 4
Apr. 16.	Sewers,	Troy, Ala.	Apr. 4
Apr. 17.	Sewers,	Woodstock, Ont.	Apr. 11
Apr. 18.	Sewer,	Youngstown, Ohio	Apr. 11
Apr. 22.	Sewers,	Scranton, Pa.	Apr. 11
Apr. 23.	Sewers,	Waterbury, Vt.	Apr. 11
	Advertised, Eng. News, April 11 and 18.		
Apr. 23.	Sewers,	Rushville, Ind.	Mar. 28
	Advertised, Eng. News, Mar. 28 and Apr. 4.		
Apr. 24.	Sewers, etc.,	New York, N. Y.	Apr. 11
Apr. 26.	Sewers,	Tomah, Wis.	Apr. 11
Apr. 30.	Sewer pipe,	Winnipeg, Man.	Apr. 11
Apr. 30.	Sewers,	Fernie, B. C.	Mar. 28
	Advertised, Eng. News, Mar. 28 to Apr. 11.		
Apr. 30.	Sewers,	Brampton, Ont.	Apr. 4
May 1.	Sewers and water-works,	Hartsville, S. C.	Mar. 28
	Advertised, Eng. News, Mar. 28 to Apr. 25.		
May 1.	Sewers,	Camden, S. C.	Mar. 28
	Advertised, Eng. News, Mar. 28 to Apr. 25.		
May 3.	Drain,	Utica, N. Y.	Apr. 11

STREETS AND ROADS.

Apr. 11.	Paving,	Buffalo, N. Y.	Apr. 4
Apr. 11.	Limestone, etc.,	New York, N. Y.	Apr. 4
Apr. 11.	Grading, etc.,	Baltimore, Md.	Apr. 4
Apr. 12.	Paving, etc.,	Louisville, Ky.	Apr. 4
Apr. 12.	Paving, etc.,	St. Louis, Mo.	Apr. 4
Apr. 13.	Grading, etc.,	Columbus, Ohio.	Mar. 28
Apr. 13.	Roads,	Terre Haute, Ind.	Mar. 28
Apr. 13.	Paving, etc.,	Cleveland, Ohio	Apr. 4
Apr. 13.	Paving materials,	Napanee, Ont.	Apr. 11
Apr. 15.	Grading,	Perth Amboy, N. J.	Apr. 11
Apr. 15.	Paving,	Lawrence, Kan.	Apr. 11
Apr. 15.	Paving,	Lincoln, Ill.	Apr. 11
	Advertised, Eng. News, Apr. 11.		
Apr. 15.	Paving, etc.,	Albany, N. Y.	Apr. 11
Apr. 15.	Grading, etc.,	Elizabeth, N. J.	Apr. 11
Apr. 15.	Brick, stone, etc.,	Wheeling, W. Va.	Apr. 11
Apr. 15.	Underpass,	Atlanta, Ga.	Apr. 11
Apr. 15.	Repaving,	Atlanta, Ga.	Apr. 11
Apr. 15.	Brick, curbing, etc.,	Savannah, Ga.	Apr. 4
Apr. 15.	Paving, etc.,	Willoughby, Ohio	Apr. 4
Apr. 15.	Paving, etc.,	Trenton, Mo.	Apr. 4
Apr. 15.	Grading, etc.,	St. Paul, Minn.	Apr. 4
Apr. 15.	Paving, etc.,	Cincinnati, Ohio	Mar. 28
Apr. 16.	Roads,	Washington, Pa.	Mar. 28
Apr. 16.	Paving, etc.,	Bayonne, N. J.	Apr. 4
	Advertised, Eng. News, Apr. 4 and 11.		
Apr. 16.	Paving, etc.,	East St. Louis, Ill.	Apr. 4
Apr. 16.	Paving,	Holyoke, Mass.	Apr. 4
	Advertised, Eng. News, Apr. 4.		
Apr. 16.	Paving,	Lima, Ohio	Apr. 11
Apr. 16.	Repaving,	Buffalo, N. Y.	Apr. 11
Apr. 16.	Paving, etc.,	New York, N. Y.	Apr. 11
Apr. 16.	Highway,	Ravenna, Ohio.	Apr. 4
Apr. 17.	Highway,	Jefferson, Ohio.	Apr. 4
Apr. 17.	Paving, etc.,	Ashland, Ky.	Mar. 21
	Advertised, Eng. News, Mar. 21 to Apr. 4.		
Apr. 18.	Broken stone,	Bloomfield, N. J.	Apr. 11
Apr. 18.	Paving,	Buffalo, N. Y.	Apr. 11
Apr. 19.	Grading, Upper Sandusky,	Ohio.	Apr. 11
Apr. 19.	Highway,	Hillsboro, Ohio.	Apr. 4
Apr. 20.	Paving,	Reedsville, Wis.	Apr. 11
Apr. 22.	Roads,	Logansport, Ind.	Apr. 4
Apr. 23.	Highway,	New Philadelphia, Ohio.	Apr. 4
Apr. 23.	Paving,	Wadsworth, Ohio.	Apr. 11
Apr. 24.	Highway,	Columbus, Ohio.	Apr. 11
Apr. 24.	Paving,	Watertown, N. Y.	Apr. 11
	Advertised, Eng. News, Apr. 11.		
Apr. 25.	Highway,	Lisbon, Ohio.	Apr. 11
Apr. 27.	Paving,	Bridgeport, Pa.	Apr. 11
Apr. 27.	Roads,	Greencastle, Ind.	Apr. 11
Apr. 29.	Grading,	Fond du Lac, Wis.	Apr. 11
Apr. 29.	Macadam,	Mt. Holly, N. J.	Apr. 11
Apr. 29.	Paving,	Salisbury, Md.	Apr. 4
	Advertised, Eng. News, Apr. 4-11.		
May 1.	Roads and walks,	Ft. Moultrie, S. C.	Apr. 4
	Advertised, Eng. News, Apr. 4-25.		
May 1.	Macadam, etc.,	Ft. Du Pont, Del.	Apr. 4
	Advertised, Eng. News, Apr. 4-11.		
May 1.	Roads, etc.,	Ft. Washington, Md.	Apr. 4
May 1.	Roads, etc.,	Ft. Adams, R. I.	Apr. 4
May 1.	Roads,	Ft. Hancock, N. J.	Apr. 11
	Advertised, Eng. News, Apr. 11 to 25.		
May 1.	Grading, etc.,	Ft. Totten, N. Y.	Apr. 11
May 4.	Paving,	Boston, Mass.	Apr. 11
May 4.	Paving,	Chagrin Falls, Ohio.	Apr. 11
May 7.	Paving,	Alexandria, La.	Mar. 28

MISCELLANEOUS CONTRACTS.

At once.	Ship channel,	Morgan City, La.	Apr. 11
Apr. 11.	Stone,	New York, N. Y.	Apr. 4
Apr. 11.	Cement,	Brandon, Man.	Feb. 14
	Advertised, Eng. News, Feb. 14 to Mar. 7.		
Apr. 11.	Subway,	New York, N. Y.	Mar. 21
Apr. 11.	Wharf,	Charlottetown, P. E. I.	Mar. 21
Apr. 11.	Dump and fill in,	New York, N. Y.	Apr. 11
Apr. 12.	Ditches,	Brookings, S. Dak.	Oct. 15
Apr. 13.	Chess wagons,	Washington, D. C.	Mar. 21
	Advertised, Eng. News, Mar. 21 to Apr. 4.		
Apr. 13.	Wharfs, coal shed,	New Rochelle, N. Y.	Apr. 4
Apr. 13.	Signal and telephone cable,	Wash., D.C.	Apr. 4
	Advertised, Eng. News, Apr. 4-11.		
Apr. 13.	Steam cranes, dump wagons,	Spain (foreign)	Apr. 4
Apr. 15.	Fire Dept. equipment,	Vicksburg, Miss.	Apr. 4
Apr. 15.	Sand,	New York, N. Y.	Apr. 4
Apr. 15.	Cement,	Montrose, Colo.	Mar. 21
	Advertised, Eng. News, Mar. 21 to Apr. 11.		
Apr. 15.	Bear-trap gates,	Wheeling, W. Va.	Mar. 21
	Advertised, Eng. News, Mar. 21 to Apr. 11.		
Apr. 15.	Bulkhead,	Perth Amboy, N. J.	Apr. 11
Apr. 16.	Ditches,	Algona, Iowa	Apr. 11
Apr. 16.	Wireless sets,	New York, N. Y.	Mar. 28
Apr. 16.	Light-house foundation,	Philadelphia, Pa.	Mar. 28
	Advertised, Eng. News, Mar. 28 and Apr. 4.		
Apr. 17.	Buoy service,	Detroit, Mich.	Mar. 28
Apr. 17.	Crematory,	Birmingham, Ala.	Apr. 4
Apr. 18.	Breakwater,	Goderich, Ont.	Apr. 4
Apr. 18.	Dam, excavation,	Brookville, Ind.	Apr. 4
Apr. 18.	Bridge terminal,	New York, N. Y.	Apr. 11
Apr. 18.	Tree guards, pipe fence,	New York, N. Y.	Apr. 11
Apr. 19.	Rock crusher plant,	Panama	Apr. 11
Apr. 19.	Engineering supplies,	Panama	Apr. 11
Apr. 19.	Dredging,	New York, N. Y.	Apr. 11
Apr. 20.	Subway,	Jacksonville, Fla.	Apr. 4
Apr. 20.	Levees, etc.,	Rock Island, Ill.	Mar. 28
Apr. 20.	Cement, stone, sand,	Portland, Me.	Mar. 28
	Advertised, Eng. News, Mar. 28 to Apr. 18.		
Apr. 20.	Locomotive jib crane,	Philadelphia, Pa.	Mar. 28
Apr. 22.	Cement,	Provo, Utah	Mar. 28
	Advertised, Eng. News, Mar. 28 to Apr. 18.		
Apr. 22.	Crematory,	Portland, Ore.	Mar. 28
	Advertised, Eng. News, Mar. 28 to Apr. 18.		
Apr. 22.	Tunnels, approaches, bridge substructures,	Long Island City, N. Y.	Mar. 21
	Advertised, Eng. News, Mar. 21.		
Apr. 22.	Light-house,	New York, N. Y.	Apr. 11
Apr. 23.	Tunnel entrance,	Boston, Mass.	Apr. 11
	Advertised, Eng. News, April 11 and 18.		
Apr. 23.	Dam machinery,	Louisville, Ky.	Mar. 28
	Advertised, Eng. News, Mar. 28 to Apr. 18.		
Apr. 24.	Removing garbage, etc.,	Schenectady, N. Y.	Mar. 21
	Advertised, Eng. News, Mar. 21.		
Apr. 24.	Levee,	Memphis, Tenn.	Apr. 11
Apr. 24.	Steel reinforcement,	Huntley, Mont.	Apr. 11
	Advertised, Eng. News, Apr. 11 and 18.		
Apr. 25.	Subways,	New York, N. Y.	Apr. 4
Apr. 29.	Cribs, piers, etc.,	Milwaukee, Wis.	Apr. 11
	Advertised, Eng. News, Apr. 11 to 25.		
Apr. 30.	Dredging,	Tampa, Fla.	Apr. 11
	Advertised, Eng. News, Apr. 11 to 25.		
Apr. 30.	Cement,	Roumania (foreign)	Apr. 4
May 1.	Wharf, dredging,	Fort Hunt, Va.	Apr. 11
May 1.	Breakwater,	Newport, R. I.	Apr. 11
	Advertised, Eng. News, Apr. 11 to 25.		
May 2.	Rip-rap,	Wilmington, N. C.	Apr. 4
May 2.	Dredging,	Des Moines, Iowa	Mar. 14
May 7.	Wireless sets, generating sets,	New York,	Apr. 11
May 8.	Excavation,	Boston, Mass.	Apr. 11
	Advertised, Eng. News, Apr. 11 to May 2.		
May 15.	Dredging,	Albany, Ill.	Mar. 28
	Advertised, Eng. News, Mar. 28 to Apr. 18.		
May 21.	Lock and approaches,	Donaldsonville, La.	Mar. 28
	Advertised, Eng. News, Mar. 21 to May 16.		
July 1.	Tunnel,	New Zealand (Foreign)	Sept. 13
	Advertised, Eng. News, Sept. 13 to Mar. 14.		

CIVIL SERVICE EXAMINATIONS.

Apr. 4.	Assistant Engr.,	New York, N. Y.	Mar. 14
	Advertised, Eng. News, Mar. 14 to 28.		
Apr. 10.	Engineer,	Fort H. G. Wright, N. Y.	Apr. 4
Apr. 17.	Scientific Assistant,	Washington, D. C.	Apr. 4
Apr. 20.	Foreman Pub. Wks.,	Albany, N. Y.	Apr. 4
Apr. 20.	Foreman, Carpenter,	Albany, N. Y.	Apr. 4
Apr. 20.	Asst. Engr.,	Albany, N. Y.	Apr. 4
Apr. 23.	Mechanical Dftsman.,	New York, N. Y.	Apr. 4
Apr. 23.	Heating, Vent'g Dftsman,	New York.	Apr. 11
Apr. 24.	Testing Assistant,	Washington, D. C.	Apr. 4
Apr. 24.	Apprentice Dftsman,	Washington, D. C.	Apr. 4
Apr. 24.	Asst. Geologist,	Washington, D. C.	Apr. 4
Apr. 24.	Geologist,	Philippines	Apr. 4
Apr. 25.	Elec. Draftsman,	New York, N. Y.	Apr. 11
Apr. 26.	Sanitary Draftsman,	New York, N. Y.	Apr. 11
Apr. 27.	Asst. Civil Engr.,	Albany, N. Y.	Apr. 11
	Advertised, Eng. News, Apr. 11.		
Apr. 27.	Bridge Designer,	Albany, N. Y.	Apr. 11
	Advertised, Eng. News, Apr. 11.		
Apr. 27.	C. E. Draftsman,	Albany, N. Y.	Apr. 11
	Advertised, Eng. News, Apr. 11.		
Apr. 27.	Masonry Inspector,	Albany, N. Y.	Apr. 11
	Advertised, Eng. News, Apr. 11.		
Apr. 27.	Bridge Draftsman,	Albany, N. Y.	Apr. 11
	Advertised, Eng. News, Apr. 11.		
Apr. 27.	Leveler,	Albany, N. Y.	Apr. 11
	Advertised, Eng. News, Apr. 11.		
Apr. 27.	Rodman,	Albany, N. Y.	Apr. 11
	Advertised, Eng. News, Apr. 11.		
May 8.	Assistant Engr.,	New York, N. Y.	Mar. 21
	Advertised, Eng. News, Mar. 21 to Apr. 18.		
May 29.	Topograph Draftsman,	New York, N. Y.	Mar. 21
	Advertised, Eng. News, Mar. 21 to May 9.		
June 4.	Asst. Engineer,	New York, N. Y.	Apr. 4
	Advertised, Eng. News, Apr. 4-25.		

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ALASKA & YUKON.—This company has been granted a charter in Canada to build a railway from a point on the Klihmi River near Pleasant Camp, B. C., to the international boundary line between Yukon and Alaska. Directors: G. A. McDougall and J. R. Smith, Dawson, Yukon; F. Joslin, Fairbanks, Alaska; and C. E. Winn-Johnson and B. L. Allan, Ottawa, Ont.

ARKANSAS, LOUISIANA & GULF.—We are officially advised that contracts will be awarded soon for building this railway from Pine Bluff, Ark., to Monroe, La., 150 miles. Alfred Cowles is Pres., Postal Telegraph Bldg., Chicago. A. H. Vanauken is Ch. Engr., Pine Bluff, Ark. E. G. Hammock, Gen. Atty., Monticello, Ark. Right-of-way and capital are obtained. Survey has been made.

ALABAMA TERMINAL.—This company has been organized at Birmingham, Ala., to build a railroad from Gate City to Birmingham. Lee C. Bradley is Pres. and Treas.; M. M. Baldwin Vice-Pres. and A. W. Brazelton, Secy. Headquarters are at Birmingham, Ala.

BOSTON & MAINE.—Company has awarded to JOHN W. FLYNN, of Waterford, N. Y., the contract for building the 16 miles of second track on the Troy branch of its road, between Johnsonville and Troy, as noted on March 21. The work is to be started at once.

CANADIAN PACIFIC. — The TORONTO CONSTRUCTION CO., Victoria St., Toronto, Ont., has contract for building 100 miles of track between Victoria Harbor and Peterboro. Cost, $2,000,000. The Toronto "World" states that "grading will be commenced immediately and the contractors expect to have it finished before the winter sets in. The line will start from the Toronto to Sudbury branch at Victoria Harbor direct west to Orillia, joining the main line to Montreal at Peterboro. The building of this line will revolutionize the transit of wheat from the west to the Atlantic Coast. At the present time the wheat and grain is loaded aboard the steamers at Fort William to Owen Sound, then shipped to Toronto on to Montreal. With the operation of the new line the wheat will be unloaded at Victoria Harbor and run right through to Montreal, saving nearly a day in reaching Montreal. With the opening of the Sudbury line the time will again be lessened by about 18 hours."

CINCINNATI, BLUFFTON & CHICAGO.—We are officially advised that contracts will be let at once for building its proposed extensions from Bluffton, Ind., to Huntington, 22 miles. Company will also build from Portland, Ind., to Union City and Richmond, 50 miles. Surveys are made. Capital is ready. Right-of-way is being secured. D. C. Dunlap is Ch. Engr., Bluffton, Ind. S. H. Bracey is Pres., 1906 Tribune Bldg., Chicago.

COVINGTON & SOUTHWESTERN.—The COLLINS CONSTRUCTION CO., 92 La Salle St., Chicago, Ill., has been awarded the contract for the construction and equipment of this road from Covington to Crawfordsville, Ind., a distance of 54 miles. The Collins Co. is asking bids for material and equipment for immediate delivery, including concrete work, trestle work, ties, steel rails, frogs and switches, steel bridges, locomotives, passenger coaches, flat, box and gondola cars, depots, station houses and roundhouses. Active construction work is to begin at once. W. G. Ruhl is Pres., Covington, Ind.; C. A. Denham, Consult. Engr., 608 Rector Bldg., Chicago.

FERDINAND RAILWAY.—Hubert Quante, Secy., Ferdinand, Ind., states that this company has been organized to build a railroad from Ferdinand to a connection with the Southern Ry., a distance of 4½ miles. Surveys have been made and contracts for building the road are to be let this spring. M. Olinger, Jr., is Pres., and Frank Quante, Ch. Engr., both of Ferdinand, Ind.

GARDEN CITY, GULF & NORTHERN.—S. H. Lynn, Ch. Engr., Garden City, Kan., advises us that contracts for constructing this railroad will be let this summer. It will extend north and south of Garden City, Kan., 150 miles. Surveys are made and right-of-way partly secured. Capital has not been obtained yet. D. R. Menke is Pres. Noted on March 14.

GREENBORO, SEABOARD & GREAT WESTERN.—This company has been granted a charter in North Carolina to build a railroad from Sanford to Walkertown, N. C., 80 miles, via Greenboro, Guilford College and Oak Ridge Institute. C. A. Bray, of Greenboro, N. C., is interested.

HOUSTON & BRAZOS VALLEY.—This company's charter has been approved. The principal office of the railroad is to be at Velasco, Brazoria County, Tex. The capital stock is $120,000. Company will build from a point near the mouth of the Brazos River at Velasco, thence north to Anchor, thence up Oyster Creek through the counties of Brazoria, Fort Bend, Harris and Waller to a point on the Houston & Texas Central near Hempstead, a distance of about 120 miles, with a branch at or near the town of Sugarland, in Fort Bend County, to Houston, a distance of 20 miles. The road is to follow the right-of-way of the railroad known as the Velasco, Brazos & Northern Railway, extending from Velasco to Anchor. The incorporators are Morgan Jones, W. E. Kaufman, E. H. Holcomb, John W. Broad, E. F. Durham, J. F. Wellington, Jr., T. L. Fryer, J. E. Head, all of Fort Worth; and Felix Jackson, of Brownwood.

MISSOURI, TENNESSEE & GEORGIA.—H. Dungan, Pres., Humboldt, Tenn., advises us, under date of April 4, that this railway will be 150 miles long, running from Caruthersville, Mo., to Florence, Ala. Right-of-way is not secured yet nor has survey been made. Mr. Dungan writes that "contracts will be let as soon as survey is made. As soon as we secure chief engineer, one who is reliable, the survey will begin. Will then secure right-of-way."

NEW YORK, NEW HAVEN & HARTFORD.—The Springfield (Mass.) "Republican" states that an extension is to be built from Southbridge northwest to Palmer, Mass., about 17 miles, to connect with the New London Northern division of the Central Vermont, which is controlled by the Grand Trunk Ry.

NORTH CAROLINA CONNECTING RY.—See Roanoke River Ry.

OCEAN & NORTHERN.—This company has applied for a charter in Maine to build a railroad from Ellsworth or Winter Harbor north to Plantation No. 33, a distance of 35 or 40 miles. Capital stock, $1,000,000. Incorporators: E. H. Greeley, L. A. McGowan, J. A. Peters, H. W. Cushman and H. M. Hall, of Ellsworth, Me.; and B. E. Tracy, of Winter Harbor, Me.

OKLAHOMA & GOLDEN CITY.—We are officially advised that organization is now being perfected. Company has partly obtained its right-of-way from Pawhuska, Okla., to Jefferson City, Mo., with a branch line to Springfield, Mo., 340 miles. Survey has not been made. W. K. Palmer, Dwight Bldg., Kansas City, is Ch. Engr. Contracts probably will be let soon.

PANHANDLE SHORT LINE.—Incorporated in Texas to build a railroad from Hereford southeast to a connection with the Texas & Pacific near Stanton, about 210 miles. Capital stock, $210,000. Incorporators: J. R. Ransom, C. W. Dodson, J. L. Fuqua, John P. Slaton, J. E. Howard, W. B. Beach and J. Ray, of Hereford; and W. E. Kitterman, James G. Archabold, J. C. Esslinger, A. R. Donaldson and O. G. Place, of Boulder, Colo.

ROANOKE RIVER RY.—The North Carolina Connecting Railway Co. has amended its charter, changing its name to the Roanoke River Railway Co. The company owns part of the roadbed and right-of-way of the old Roanoke Valley Railroad between Manson, N. C., and Soudan, Va. Line is to be 90 miles long. T. F. Whittelsey, now Gen. Mgr. of the Seaboard Air Line, Norfolk, Va., is Pres.; D. J. Nysewander, Homeville, Ga., First Vice-Pres.; D. W. Gunn, Roanoke, La., Second Vice-Pres.; S. P. Douglas, Henderson, N. C., Secy. and Auditor; R. H. Hood, Treas. and W. H. Hood, director, both of Henderson.

ROCKINGHAM & CASWELL.—This company, which was granted a charter by the Legislature, will be about 30 miles long, from Stokesdale, N. C., or a point near there, on the Norfolk & Western Railway, to Leakesville, Spray, Wentworth, Reidsville, Yanceyville and Roxboro. Principal office will be at Reidsville, N. C. The incorporators are W. R. Walker, J. S. McAlister, B. Frank Mebane, of Spray; D. F. King, of Leakesville; Samuel Ellington, A. J. Whittemore, Reubin D. Reid, of Wentworth; R. T. Williams, Hugh R. Scott, P. B. Johnston, P. W. Glidewell, J. R. Webster, John T. Oliver, H. A. Hayes, R. L. Watt, J. F. Watlington, of Reidsville; R. L. Mitchell, F. W. Brown and Julius Johnston, of Yanceyville.

SEABOARD AIR LINE.—An order has been made by the North Carolina Corporation Commission that the Seaboard Air Line put a branch line between Wilmington and Hamlet, N. C., 110 miles, in repair and lay down new rails. The road is said to be in bad condition and promises were made time and again that improvements would be made, but nothing was done. Much traffic is handled over the road and during the summer the passenger travel is heavy. The order will compel the company to spend $500,000.

SUMPTER VALLEY.—Joseph A. West, Ch. Engr., Ogden, Utah, states that surveys are being made for an extension from Austin to John Day Valley, Ore., 38 miles. David Eccles is Pres., Ogden, Utah.

TEMISKAMING & NORTHERN.—McRae, Chandler & McNeil, contractors, MacDougall Chutes, via Englehart, Ont., announces that they have "18 miles of first-class station work, Muskeg, and number of sub-contracts from five to ten miles each, for which we will pay the highest prices. The above are on the Temiskaming & Northern Ontario Railway, between MacDougall Chutes (via Englehart) and the conjunction of the Grand Trunk Pacific Railway." See issue of Feb. 28.

UNION RAILROAD.—This company has been organized at Langdon, N. Dak., by farmers to build a railroad from the international boundary line to a point on the Great Northern near Osnabrock, N. Dak. Capital stock, $100,000. Directors: W. L. Drury, Joseph McGauvran, Ole Romfo, George W. Graves, O. E. Thompson, Robert Murie, W. H. Row, Hugh McDowall, John J. Fischer, Peter Olson and Thomas Ullvott.

WOLFE, MEGANTIC & LOTBINIERE.—We are officially advised that this company is negotiating for capital for building this line. It will extend from Quebec to Lime Ridge and Sherbrooke, Que., 110 miles. W. H. Lamby is Secy., Inverness, Que. Right-of-way is secured and survey made. Contracts probably will be let this spring.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

SOUTHINGTON, CONN.—The Litchfield & Torrington Tramway Co., which proposes to build between Torrington, Lake Bantam and Litchfield, a distance of ten miles, expects to start construction in the summer of 1907. W. F. Dowd, of Litchfield, is Pres., and T. H. McKenzie, of Southington, is Secy. and Treas.

ITHACA, N. Y.—J. W. Hart, Consulting Engr. for the Ithaca & Seneca Falls Interurban Railroad Co., states that the company has been fully organized and preparations are being made for construction work, which is to begin about July 1907. The proposed road will be about 47 miles long, and will connect the following cities and towns: Ithaca, Trumansburg, Covert, Interlaken, Lodi, Ovid, Romulus and Seneca Falls. The capital stock is $1,000,000. The power station and repair shops will be situated at Ithaca. Jacob Rothschild is Pres.; J. N. Hammond, Secy. and Counsel, and Thomas Bush, Treas. Noted on Feb. 28.

TRENTON, N. J.—The New Jersey & Pennsylvania Traction Co. will construct a new line from Princeton to this place, a distance of 18 miles, during the coming summer. T. G. Kitchen, Engr.-in-Charge of the survey, has stated that part of the railway will be located on private right-of-way from 50 to 100 ft. wide, away from the public roads. Most of the public roads will be crossed over or under, and there will be no grade crossings of any railroad. There will be several bridges, the largest being across the Raritan River, exceeding 1,800 ft. Noted last week.

ELIZABETHTOWN, PA.—The Elizabethtown & Deodate Street Ry. Co. will apply for a charter on April 29. Company will build a line to run from Elizabethtown, Lancaster County, to Hockersville, Dauphin County, about ten miles. This line, when completed, will finish the through line from Harrisburg to Philadelphia. At present there is a continuous street railway line from Philadelphia to Elizabethtown, and the new line will fill the gap between the latter place and Hockersville, where it will connect with the Hummelstown & Campbellstown Street Ry. line, which runs from Hummelstown to Palmyra, going through Hockersville. At Hummelstown the line could connect with the line of the Central Pennsylvania Traction Co., reaching Harrisburg in that way. The incorporators of the new company are William H. Lebkicher, of Hershey; John E. Snyder, Lancaster; S. C. Strehl, Hummelstown; C. S. Maulfair, of Annville; and E. B. Snavely, of Hershey.

NEW CASTLE, PA.—Surveys for the proposed New Castle & New Wilmington St. Ry. are now being made, and actual work will commence in May. Ground has been secured for the terminal in New Castle, which will be situated in the heart of the city. The road will be ten miles in length, standard gage, and will connect New Castle, Coal Town and New Wilmington. The capital stock is $60,000 authorized and $20,000 issued. The officers are: J. H. Veazey, Pres.; J. J. Ashenhurst, Secy.; Geo. H. Getty, Treasurer, all of New Wilmington; and Geo. B. Zahniger, Ch. Engr., of New Castle. Noted on Feb. 28.

BURGETTSTOWN, PA.—A charter has been granted at the State Department to the Burgettstown, Florence & Paris Street Railway Co. Capital, $66,000. Chas. W. Dahlinger, Pittsburg, is Pres.; John W. Thomas, Robert L. James, A. H. Mercer and L. W. Bigham are Directors. The line will extend from the bridge spanning Raccoon Creek at Washington St., Burgettstown, to the Pennsylvania-West Virginia state line via Florence. It will cross the properties of the Pittsburg, Cincinnati, Chicago & St. Louis Railroad and the Pittsburg & Buffalo Coal companies.

HYATTSVILLE, MD.—At a meeting held here at the law offices of James C. Rogers on April 5, the Washington, Spa Spring & Gretta Electric Railroad Co. was organized by the election of the following officers: County Clerk B. D. Stephen, Pres.; ex-Congressman S. S. Yoder, Vice-Pres.; Fillmore Beall, Secy.; R. N. Ryon, Treas., and James C. Rogers, Gen. Counsel. These officers and William W. Poultney, William P. Magruder J. Enos Ray, Jr., and J. Harris Rogers will constitute the board of directors. The deposit of $1,000 required by act of Congress granting the company the right to enter Washington as a guarantee that the road would be constructed has been made with the Collector of Taxes. The railway enters the city over the old Bladensburg turnpike, which will probably be widened, and the terminus will be at 15th and H Sts., N. E.

TAMPA, FLA.—E. C. Stuart, Pres. of the Peninsula Ry. Co., Bartow, Fla., advises us that survey has been run for this company's proposed railway. The W. H. Evers Engineering Co., Cleveland, Ohio, is Engr. The line is to run from Tampa to the Atlantic Coast, via Plant City and Bartow. Capital is partly secured. Right-of-way is obtained. Contracts will be let soon.

CINCINNATI, OHIO.—J. C. CARLAND & CO., of Toledo, has contract for grading on the Cincinnati Northern Traction Co.'s line between Middletown and Hamilton, Ohio.

YOUNGSTOWN, OHIO.—The Lake Erie & Youngstown Railroad Co. has been incorporated, with capital of $10,000, for the purpose of building an electric line between this city and Conneaut. The incorporators are G. M. Brown, Wilbur F. Stanley and George J. Chapman, Conneaut; Frank J. Cheney, Toledo; John H. Ruhlman, Youngstown; William H. Ruhlman, North Lima, and A. W. Jones, Burg Hill. The line will parallel the Lake Shore road for some distance.

LAFAYETTE, IND.—The Lafayette & State Line Ry. Co., which was recently organized to build street and interurban lines in and to connect Lafayette, Attica, Williamsport, West Lebanon, Marshfield, Johnsfield and State Line, reports that the project has practically been abandoned. W. H. Goodwine is Pres. and Grant Pomeroy is Secy.

CHICAGO, ILL.—Chicago City Ry. Co. directors will meet soon to consider the propositions in the new ordinance, after the management has formally accepted it. Ninety days from election day, April 2, are allowed for filing acceptance. The Union Traction Co. has 120 days. M. B. Starring, Vice-Pres. of the Chicago City Ry. Co., states that 300 new cars, costing $6,000 each, will be used on the south side this year. "Mr. Mitten, the Pres., says the board of supervising engineers will be organized early next week. The engineer in charge for the companies will be a Chicago man not now connected with them." Bion J. Arnold, the city's expert, in general charge of the work for at least three years to come, said: "The City Railway will reconstruct 34 miles of cable track and 60 miles of electric track. The Chicago Union Traction will reconstruct 48 miles of cable, and 90 miles of electric track. The south side will get 800 new cars and the north and west sides 1,200 new cars. A decision will soon be made whether it is ... new power-houses, depend... of the companies to purch... vantageous figures. The e... houses would be $10,000,0...

BLOOMINGDALE, ILL.—... Elgin Electric Railroad C... struction work this sum... which is to connect Elgin... ingdale, Addison, Elmhur... Maywood and River Fore... completed will be 26 mile... tal stock is $10,000. F. W... E. W. Fischer, Vice-Pres... Secy., and Chas. F. Straus...

MINNEAPOLIS, MINN.—... rectors of the Minneapolis... buque Traction Co., which... electric railway between D... buque, Iowa, have been c... M. N. Savage, of Minneapo... Boutell, of Minneapolis, V... Mason, Secy. and Gen. M... phy, Treas.; G. M. Bleeke... directors, besides the offi... McKenna, of Minneapolis... Chatfield, Minn., and John... sey City, N. J.

TOPEKA, KAN.—A cha... granted to the Kansas Tra... State Board. The company... struct and operate a sta... either steam or electric, fr... Kansas City, a distance of ... company is capitalized at ... Incorporators are: F. B. Sh... doo, S. D. Frazier, and other...

BROOKINGS, S. DAK.—The Brookings & Sioux Falls Railway Co. will begin construction of its road about May 1. It is stated The road is to be about 65 miles long and will be operated by both gasoline and electricity. Brookings, Dell Rapids, Flandreau and Sioux Falls will be connected by the road. The company is capitalized at $1,000,000. The officers are: Neal Stewart, Pres. and Genl. Mgr.; F. J. Carlisle, Vice-Pres.; A. B. Crosier, Secy.; J. B. Wilson, Treas., all of Brookings. L. A. Smith, of St. Louis, Mo., is Ch. Engr.

WAGNER, S. DAK.—John Absher, Pres. of the Wagner, Lake Shore & Armour Traction Co., states that the grading of the road will commence about May 1. The road will be 25 miles long, and will connect the towns of Wagner and Armour. A summer resort is to be established at Lake Andes. The amusement park at this place is one of about 106 acres, and is owned by the company. The capital stock is $500,000.

HELENA, MONT.—The Helena & Butte Electric Ry. Co. will be incorporated to build an electric line in Montana. The directors are F. A. Heinze, Butte; J. T. Stafford, Great Falls; H. G. Pickett, W. T. Hull, F. S. P. Lindsay, George L. Ramey, O. M. Lanstrum, N. B. Holter, M. H. Gerry, Jr., John S. M. Neill and A. C. Johnson, Helena. Capital stock, $500,000.

LOS ANGELES, CAL.—It is reported that construction will be commenced on the Los Angeles & Owens Valley R. R. in a few months. The road is to be 325 miles, and will connect Los Angeles, Brandeburg, Independence, Big Pine and Bishop. Capital stock is $10,000,000, of which $5,000,000 has been issued. The amount of bonds authorized is $10,000,000. The officers of the company are: S. P. Jewett, Pres.; Geo. Chaffey, Vice-Pres.; A. M. Chaffey, Secy. and Treas., and F. B. Jewett, Electrical Engr., all of 411 South Main St., Los Angeles.

CALGARY, ALTA.—The City Council has voted $250,000 for the construction of a municipal electric street railway system. F. W. Thorold is City Engr.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

LOWELL, MASS.—The Lowell Electric Light Corporation intends to build a $25,000 plant at Belvidere. Norman T. Wilcox, Lowell, is Local Mgr.; Stone & Webster, 84 State St., are Gen. Mgrs.

SPRINGFIELD, MASS.—CASPER RANGER of Holyoke, Mass., is reported to have secured contract for improvements to the plant of the United Electric Light Co. at about $100,000. W. L. Mulligan, Springfield, is Mgr.

STAMFORD, CONN.—The Stamford Gas & Electric Co. will erect a new gas plant on its property at the corner of South and Atlantic Sts. The company is making extensive alterations in its electric plant at the corner of South and Crosby Sts. R. Crawford is Mgr.

NEW BRITAIN, CONN.—The Traut & Hine Mfg. Co., it is reported, will install a power plant in connection with its new factory buildings. An addition will be made to the present building and new engines of 350 HP. will be installed. The capacity of the present plant is 175 HP.

BUFFALO, N. Y.—The New York State Steel Co. has filed plans with the Bureau of Buildings for a power house, boiler-room and cast house. Estimated cost $54,000. E. R. Hillman, White Bldg., is Gen. Mgr.

BUFFALO, N. Y.—The Cataract Power & Conduit Co. has applied to the City Council for a franchise to lay a power conduit under the city ship canal for the purpose of supplying Picklands, Mather & Co., Ganson St., with electricity for operating its plant. The company is planning to supplement its present steam apparatus with electrical machinery for the handling of iron ore. The Cataract Power & Conduit Co. will furnish Picklands, Mather & Co. with 600 HP. 24 hours daily for nine months in the year. Charles R. Huntley, Buffalo, is Gen. Mgr. of the Electric Co.

POUGHKEEPSIE, N. Y.—CLINTON & FRAZIER have been awarded the contract for stone excavation for the Poughkeepsie Light, Heat & Power Co. at the river side. The material will be used in making a new landing. George Weaver, Poughkeepsie, is Ch. Engr.

ROME, N. Y.—We are officially advised that bids will be asked about May 1 by the Clerk of the Board of Public Works, for constructing electric light plant, with about 240 lamps. H. C. Midlam is Clk. It was erroneously reported last week that bids for this were asked until Feb. 4.

PHILADELPHIA, PA.—J. E. & A. L. PENNOCK, 1103 Title Bldg., have secured contract for erecting the power plant for the Philadelphia General Electric Co., on 13th St. and Washington Ave. The building will be five stories high, 85 x 130 ft., of reinforced concrete construction and will cost about $110,000.

RISING SUN, MD. — The ELECTRIC LIGHT, HEAT & POWER CO., lately organized in Rising Sun, is reported to have secured the contract to furnish Rising Sun with electric lights and the plant will be installed by R. T. Groff, of Lancaster, Pa., and John S. Lively, of Richmond, Va., will have charge of the electrical equipment.

BALTIMORE, MD.—Bids are asked by Young & Co., Boston and Elliott Sts., for constructing a power house in Baltimore. The building will be of brick and stone construction, three stories, and complete equipment will be installed.

WASHINGTON, D. C.—The Secretary of Agriculture has awarded to AMBROSE B. STANNARD, St. James Bldg., New York, contract for the construction of the new power house building for the Agricultural Department at his bid of $25,953.

ROCKYMOUNT, VA.—The Atkins Milling Co. contemplates installing electric plant to light Rockymount, it is reported. It will need full equipment, including turbine wheels.

PORTSMOUTH, VA.—It is reported that the Portsmouth Gas Co. will enlarge central plant and lay additional mains. Mr. Ferguson is Supt.

BLUEFIELD, W. VA.—The city has granted franchise to Raymond M. Hudson, it is reported, to construct and operate gas works, lay mains and pipes in streets, etc., and manufacture, generate, distribute and sell gas for fuel, motive power and illumination. Construction work will begin within 90 days.

ELBERTON, GA.—We are officially advised that bids will be received about July 15 for constructing an electric power plant at Elberton. The plant will be operated by steam and it is expected that a 108-KW. alternator and exciter will be installed, as well as a 150-HP. engine. G. W. Hubbard is Supt.

PENSACOLA, FLA.—Bids are asked until 11 a. m., May 4, at the Bureau of Yards and Docks, Washington, D. C., for installing boiler room machinery for the central power plant at the U. S. Navy Yard at Pensacola. C. R. Hollyday is Ch. of Bureau. Specifications are on file at the office of Engineering News, New York.

BESSEMER, ALA.—Harrison, Gay & Dantzler, of Biloxi, Miss., have petitioned the City Council for a franchise to establish a gas plant in this city.

MERIDEN, MISS.—The Meriden Light & Ry. Co., it is reported, will expend about $25,000 in improvements to its gas plant. A. B. Preston is Mgr.

KNOXVILLE, TENN.—T. B. Burridge, of Denver, Colo., and associates contemplate building dam and power plant, supplying power for Knoxville.

GARY, IND.—The contract for the construction of the gas engine power plant of the Indiana Steel Co., at Gary, has been awarded the contract for the wiring and National Bank Bldg., Chicago, Ill. H. M. Byllesby & Co., 123 Monroe St., Chicago, Ill., are Engrs.

INDIANAPOLIS, IND.—The Indianapolis Light & Heat Co., Monument Pl., has had plans prepared and will receive bids for a 1-story sub-station, 48 x 135 ft. Brick, hard plaster, will be used in construction, with composition roof, water closet fixtures and washstands. T. A. Wynne is Supt.

GRAND RAPIDS, MICH.—The M. B. WHEELER ELECTRIC CO. has been awarded the contract for the wiring and electrical equipment for the new Baxter laundry building. The laundry company will generate all electricity for both power and lighting purposes. The smaller machines in the plant will be direct driven by small motors, while other machines will be grouped and be driven by larger motors.

ESCANABA, MICH.—All bids received March 23 for improvements to the city electric light plant were rejected and new ones will be called for. Estimated cost, $16,000. T. J. Burke is City Clerk.

MENOMINEE, MICH.—A 6,000-HP. plant will be built here, it is reported, by a new corporation which will operate paper mills and other factories at Escanaba and Gladstone. C. L. Hule, of the Menominee & Marinette Traction Co., is in charge. Capital, $200,000.

LOWELL, MICH.—The Detroit Edison Co. has begun work on the development of the Huron River power for electric power for lighting and commercial uses. A 415,000-HP. plant, with three water wheels, will be installed at Lowell, near Ypsilanti. This dam is already in, the power having been used to run mills until they burned down and the Edison Co. acquired the property. It will be December before this is finished. It is said the next plan to be carried out inside of a year is building a dam with a 22-ft. head, about a quarter of a mile above the present Michigan Milling Co. dam in Ann Arbor. This will back the water up as far as Fester's, which is four miles west of that town.

FOND DU LAC, WIS.—The East Wisconsin Ry. & Light Co. will erect a power house at the bend of the river, near Rees and Russells Sts.

HUDSON, WIS.—The Willow River Electric Light & Power Co. is contemplating installing a 150 to 175-HP. alternating-current, three-phase, 60-cycle, 500-r. p. m. belted generator in its plant this spring. T. E. Hanson is Mgr.

NEW HAMPTON, IOWA.—Contracts for water-works and an electric light plant have been awarded as follows: To WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, Pa., for electrical apparatus, $3,000; FILER & STOWELL CO., Milwaukee, Wis., engine, $2,500; J. G. ROBERTSON, 29 Gilfillan St., St. Paul, Minn., boilers, feed pump, etc., $4,850, and MOSS & JACKSON, Des Moines, steel tower and tank, $4,654.

AITKIN, MINN.—We are officially advised that the Aitkin Power & Light Co. will install a $25,000 water power plant here. Entire equipment will be purchased, which includes 5½ miles of tranmission line. C. S. Kathan is Des. Engr.

BIG TIMBER, MONT.—Extensive improvements and additions are contemplated by the Big Timber Light & Power Co. A Westinghouse generator of 60-KW. capacity and a 90-KW. dynamo will be installed. A. A. McDonald is Ch. Electrician.

SALTESE, MONT.—Arrangements are being made here by Benjamin F. Blakely for the installation of a plant to furnish water and electric lights.

LITTLE ROCK, ARK.—The Little Rock Ry. & Electric Co. has purchased from the GENERAL ELECTRIC CO. a 1,500-KW. turbine. The company is rebuilding and repairing six miles of track and rebuilding its car house, in which an elevator and new machinery are being installed. R. F. Baise, Little Rock, is Ch. Engr.

LA PORTE, TEX.—The city has granted franchise to F. A. Peters and J. B. F. Robinson for construction of electric light plant to be in operation within 6 months and establishment of water-works to be in operation within 18 months.

TEMPLE, TEX.—The Temple Electric Light Co. contemplates installing an engine of 100-H.P. and a 90-KW., 250-volt, direct-current General Electric dynamo in its plant. F. E. Merrill is Mgr.

ELGIN, TEX.—The city has granted 30-year franchise to W. H. Rivers to construct electric light and water plant. A stock company will probably be organized.

HOUSTON, TEX.—The Houston Lighting & Power Co. contemplates installing an additional 1,500-KW. turbo-generator set, with boilers, condenser, etc. William H. Chapman is Mgr.

OKLAHOMA, OKLA.—Oklahoma Natural Gas Co. has increased capital stock from $3,000,000 to $4,000,000 to provide for additional line of pipe it will lay from Oklahoma City to El Reno and Enid, Okla. About 98 miles of 12-in. piping has already been laid, starting point being the company's gas wells between Tulsa and Sapulpa, Ind. T.

LEAVENWORTH, WASH.—Bids are asked until April 23 by the Town Council for an electric light and water-works franchise. Guy A. Hamilton is Town Clerk.

WENATCHEE, WASH.—The Wenatchee Electric Co. is reported to be contemplating increasing the capacity of its plant and will install additional generating equipment to be operated either by steam or water power. Plans for the work have not yet been made. The stockholders have voted to increase the capital stock to $150,000. Arthur Gunn is Mgr.

PORTLAND, ORE.—We are officially advised that work on the new dam and power plant to be constructed about three miles above the present plant of the Portland Ry., Light & Power Co., on the Clackamas River, is now confined to preliminary surveys and foundation test work. C. J. Franklin, Portland, is Gen. Supt.

WILLOWS, CAL.—The NORTHERN CALIFORNIA POWER CO. has been awarded contract by the Central Canal Co. to furnish power for pumping water into the canal. The company will install immediately a 600-HP. sub-station at the mouth of the canal and the pumping plant will be equipped with two 225-HP. motors. Next year the plant will be increased and the company will use 1,800 HP. The pumps at the headgate are now being installed and will be in readiness by May 1. E. V. D. Johnson, Redding, is Mgr.

WALLACE, IDAHO.—The Wallace Light & Power Co. is reported to be considering the question of replacing present Placer Creek wooden flume with a steel structure. Cost, $50,000. D. C. McKissick is Supt.

SALT LAKE CITY, UTAH.—J. T. Brecken, of Salt Lake City, has made application to appropriate 1,000 second-feet of water from Green River for power purposes. It is estimated that 4,000-HP. will be generated. The scheme involves the construction of a masonry dam 25 ft. high across the channel of Green River.

STREETSVILLE, ONT.—We are officially advised that the village of Streetsville will install a power plant here. The dam and power house will cost about $20,000. Contract for concrete work has been let to JESSE WINGER, of Carrville, Ont. John S. Fielding, 15 Toronto St., Toronto, is Consult. Engr.

LONDON, ONT.—The London Street Ry. Co. commence work soon on additions to building and equipment of its power plant to cost $50,000. C. B. King is Mgr.

MILL BROOK, ONT.—Bids are asked until April 15 by Walter W. Gilbert, Clerk, for lighting the town by electricity.

INDIAN HEAD, SASK.—The city will spend $25,000 this year in extensions to the electric lighting plant. T. E. Donnelley is Mayor.

VANCOUVER, B. C.—The Stave Lake Power Co., which is now engaged in establishing a 15,000-HP. hydro-electric plant at Stave Falls, will call for bids soon for supplying the generating plant and turbines. Three 5,000-KW. generators will be installed in the power house.

BRIDGES.

printed in capital letters.

The names of parties awarded contracts are

WATERTOWN, MASS.—Bids are asked until 8 p. m., April 26, for building the Galen St. bridge and wing walls at Charles River. Wilbur F. Learned, Town Engr. (Advertised, Engineering News).

PROVIDENCE, R. I.—Walter F. Slade, Highway Comr., has awarded contract for erecting brick arches for floor of driveway at Point St. bridge to the PETTACONSETT CONSTRUCTION CO., at about $3,500. Otis F. Clapp is City Engr.

WOONSOCKET, R. I.—Bids are asked by Stephen Magown, Chn. of Com. on Streets and Bridges, until 4 p. m., April 26, for constructing an iron, steel or concrete and steel bridge at Arnold St. over New York, New Haven & Hartford R. R. tracks. Frank H. Mills is City Engr. (Advertised, Engineering News.)

NEW YORK, N. Y.—Bids are asked by James W. Stevenson, Comr. of Bridges, until 2 p. m., April 18, for constructing temporary extension of Manhattan terminal of Brooklyn Bridge.

JERSEY CITY, N. J.—The following bids were received by the Board of Freeholders, April 4, for the three sections of the work of constructing 14th St. (Hoboken) Viaduct: (A) first section; (B) second section: (C) third section; Penn Bridge Co., (A) $381,000 and 100%; (B) 91%; (C) $153,400 and 91%. Jos. H. Cutley, (A) $414,900 and 102%. E. P. O'Neill, (B) 89%. Owego Bridge Co., (A) $375,059 and 97%; (B) 89%; (C) $138,500 and 85%. Snare & Triest Co., (A) $396,000 and 96%; (B) 84%; (C) $144,000 and 89%. Heagney & Co., (A) $435,000 and 90%. Henry & McGivney, (A) $437,000 and 117%; (B) 158%. F. M. Stillman Co., (A) $449,900 and 93%; (B) 134½%; (C) $140,491 and 126%. Walter O'Mara is Clk.

EASTON, PA.—The contract for constructing bridge across Delaware River has been awarded to the AMERICAN BRIDGE CO., 42 Broadway, New York.

HAVRE DE GRACE, MD.—The AMERICAN BRIDGE CO., 42 Broadway, New York, has secured contract for constructing the Baltimore and Ohio bridge across the Susquehanna River at this place. D. D. Carrothers is Ch. Engr.

WASHINGTON, D. C.—Bids are asked by the District Commissioners until noon, April 20, for the construction of a concrete-steel bridge on the line of Monroe St. extended across the track of the B. & O. R. R. Co., Anacostia, D. C. (Advertised, Engineering News).

WASHINGTON, D. C.—Bids are asked until 2 p. m., May 15, by the U. S. Reclamation Service, Washington, for furnishing the metal work of two 60-ft. span steel highway bridges, f. o. b. cars at manufacturer's shipping point. James Rudolph Garfield is Secy. (Advertised, Engineering News).

COURTLAND, VA.—The Board of Supervisors of Southampton County has awarded contract for steel bridge and viaduct at Courtland to ARTHUR F. PRIEST, Bridge Engr., of Lynchburg, Va. The bridge is to consist of two pin-connected high truss spans, with cantilever trestle approaches. The contract price is $15,000.

PENSACOLA, FLA.—Bids are asked by the Board of County Commissioners until June 4 for erecting modern steel bridge across Little Bayou.

CINCINNATI, OHIO.—Bids are asked until April 22 by the Board of Public Service, M. J. Keefe, Clk., for furnishing material for superstructure work for viaduct in connection with improvement of right-of-way for Harrison Ave. viaduct, from Barnard St. and Harrison Ave. to State Ave. Charles N. Danenhower is Ch. Engr., Bd. Pub. Service.

COSHOCTON, OHIO.—Bids are asked by the County Commissioners until May 8 for constructing one 165-ft. steel bridge across Wills Creek in Franklin Township; an automatic swing bridge 50 ft. long over Ohio Canal at Orange, Oxford Township and 40-ft. span bridge in Perry Township. George J. Bock, Jr., is County Surv.

WASHINGTON C. H., OHIO.—Bids are asked until April 30 by H. D. Chaffin, County Auditor, for furnishing material and constructing new floor system for Court St. steel joist bridge. Frank M. Kennedy is County Surv.

NEW LEXINGTON, OHIO.—Bids are asked by the County Commissioners until April 22 for erecting bridge at Main St. George T. Drake is County Audr.

BUFFALO, OHIO.—The County Board may construct bridge across Wabash River at Main St. Estimated cost, $15,000.

CLEVELAND, OHIO.—We are officially advised that Jones & Rogers, of this city, submitted lowest bid for constructing concrete abutments in Bedford Township, at $5,531. A. B. Lea is County Surv.

SOUTH BEND, IND.—The County Commissioners have awarded contract to C. L. COPP, of Osceola, Ind., for constructing Four-Mile bridge, at $10,784. The E. J. LAUDER-MARSH BRIDGE CO., of Canton, Ohio, secured contract for erecting Melan arch bridge of three 80-ft. spans in Portage Township, at $23,750. A. J. Hammond is Engr.

WABASH, IND.—We are officially advised that the County Commissioners April 2 awarded contract for repairing bridges to JOSEPH R. HOOVER, of Bunker Hill, Ind., at about $3,000. All bids received for erecting 35 concrete arch bridges were rejected. New bids will be received during May. W. S. Davis is County Audr.

COLUMBUS, IND.—The Commissioners of Bartholomew and Shelby Counties are considering plans for constructing joint bridge over Haw Creek on the county line.

LIBERTY, IND.—Bids are asked by the County Commissioners until April 18 for constructing two steel bridges. Clinton Gardner is County Audr.

CRAWFORDSVILLE, IND.—The County Commissioners have let contract to the ANDERSON BRIDGE & SCRAPER CO. for erecting 90-ft. span bridge across Walnut Fork. GEORGE B. LYNCH, of Darlington, secured contract for constructing ten bridges and arches.

MILWAUKEE, WIS.—Bids are asked by F. O. Phelps, County Clk., until 10 a. m., May 4, for constructing concrete-steel arch viaduct, Melan system, over Menomonee Valley along line of Grand Ave. The Concrete-Steel Engineering Co., Park Row Bldg., New York, are Engrs.

ELDORADO, KAN.—Bids are asked by the Townships of Eldorado and Prospect until April 15 for constructing bridge on line between sections 21 and 22.

ST. LOUIS, MO.—The McKinley Interurban Railway System, which has obtained a franchise in St. Louis through its local terminal organization, the St. Louis Electric Terminal Ry. Co. will invest $5,000,000 in land and improvements in St. Louis. Plans have been prepared by Ralph Modjeska for the new bridge across the Mississippi River. A passenger station to be built at Twelfth, Thirteenth, Gay and Linden Sts. will cost at least $200,000. The other buildings and construction will cost about $1,000,000. The bridge will be 2,365 ft. from shore to shore. It will be constructed of the heaviest steel. There are to be three central spans, with a length, respectively, of 521, 523 and 521 ft., and two smaller spans, each 300 ft. in length, touching on either shore. The structure will have a clearance of 75 ft. above low water. The bridge will cost $2,500,000.

ELBE, WASH.—Bids are being received by the County Commissioners for erecting bridge at this place across Nisqually River.

EVERETT, WASH.—The contract for raising Snohomish River bridge six feet higher than the original contract has been let to the EVERETT CONSTRUCTION CO., for $8,990. W. I. Barkhuff is City Engr.

HOQUIAM, WASH. — The contract for erecting the Humptulips bridge has been let to the NORTHWEST BRIDGE CO., of Seattle, for $12,000.

PORTLAND, ORE.—Estimates calling for expenditure of $1,000,000 in construction of modern steel bridges to replace wooden structures on the Oregon R. R. & Navigation Co. and Southern Pacific Co. lines in Oregon have been approved by the Eastern officials of the Harriman system, and work will be started soon on these improvements. It is expected to complete the replacement of the old bridges with the steel structures during the coming summer. The bridge included in the estimates are structures spanning Umatilla River at Nolin, Ore., twelve bridges across Burnt River north of Huntington, smaller structures crossing Moffatt, Tanner, Mosier, Five-Mile and Eagle Creeks, between Cascade Locks and Portland, all on the Oregon R. R. and Navigation Co. and bridge crossing McKenzie River on the Southern Pacific, together with a number of others on that railroad. Horseshoe Curve, near Durkee, on the Oregon Railroad and Navigation, will be filled in. G. W. Boschke, at Portland, is Ch. Engr., Oregon R. R. & Navigation Co.

SALINAS, CAL.—We are officially advised that the MINNEAPOLIS STEEL & MACHINERY CO. has been awarded contracts for constructing steel bridges across Salinas River at San Ardo and Chualar, at $41,800 and $20,900, respectively. The San Ardo (A) bridge to consist of eleven 100-ft. spans with 782 ft. of approach and the Chualar (B) bridge to consist of five 100-ft. steel spans with 506 ft. of pile trestle approach. The following bids were also received by the Board of Supervisors for (1) steel, (2) combination construction: G. C. Pratchner, (1), (A), $56,675; (B) $28,847. Granite Rock Co., (1), (A), $53,821. (2), $51,821. Ottumwa Bridge Co., (1), (A), $46,500; (B) $24,000. San Francisco Bridge Co., (1), (A), $46,900. (2) $39,900; (1), (B), $24,990. (2) $22,490. Hyde, Harjes & Co., (1), (A), $52,000, (B), $27,000; (2), (A), $46,500, (B), $24,800. James A. MacMahon Co., (1), (A), $49,800, (B) $25,800; (2), (A), $45,800, (B), $23,800. Pacific Construction Co., (1), (A), $53,240, (B), $28,270; (2), (A), $48,840, (B), $24,970. Healy, Tibbetts & Co., (1), (A), $54,120, (B), $27,280; (2), (A), $47,900, (B), $24,520. Canton Bridge Co., (1), (A), $49,443, (B), $24,270; (2), (A), $45,629, (B), $22,993. Cotton Bros., (1), (A), $49,834, (B), $27,861; (2), (A), $46,443, (B), $26,140. Vincennes Bridge Co., (1), (A) $49,000, (B), $28,000. John Gilligan Co., (1), (A), $50,900, (B), $28,200. Denver Bridge Co., (1), (A), $49,875, (B), $28,875. Charles G. Sheely, (1), (A), $43,741; (B), $22,741. The Midland Bridge Co., (1), (A), $44,850; (B), $22,450; (2), (A), $42,950, (B), $20,470. Lou G. Hare is County Surv.

QUINCY, CAL.—The County Board has decided to construct bridge across Feather River. Estimated cost, $8,000.

HAILEY, IDAHO.—The County Commissioners have under consideration the construction of wagon bridge across Muldoon Creek, between Hailey and Muldoon.

SHOSHONE, IDAHO.—Edwin Verburg has applied to the County Commissioners for permission to construct and operate toll bridge across Snake River between the counties of Lincoln and Cassia.

ST. GEORGE, N. B.—The DOMINION BRIDGE CO., of Montreal, has secured contract for erecting metal superstructure for St. George Lower Bridge.

BUILDINGS.

MONTPELIER, VT.—It has been decided to erect a City Hall on Haymarket Sq., on Main St., now owned by the city, and some adjacent property will be purchased to afford the necessary room. The construction of the building will be in charge of a committee of six citizens selected by the City Council, with James S. Haley, Mayor, as chairman ex-officio. The cost will be about $150,000, and the city already owns part of the land to be used. The building will contain the usual

city offices, and in addition an auditorium capable of holding 2,000 or more people, as well as a memorial room, to be used by the G. A. R.

NEW BEDFORD, MASS.—The City Council contemplates expending $450,000 to remodel two of the old municipal buildings, and plans for the same have about been completed. The present City Hall building, built when New Bedford was a town, is to be converted into a free public library capable of housing 200,000 volumes. Nat C. Smith, Merchant Bank Bldg., New Bedford, has prepared the plans, which have met the approval of the Library Trustees, and which are thought rather to improve the appearance of the ancient structure. Some time ago the building was damaged by fire. The stone used in the original building came from a quarry in Fall River. This quarry is still in existence, and the stone from it will be used in the additions. The old surface will be treated to a sand blast to secure uniformity of appearance.

Samuel C. Hunt, Odd Fellows' Bldg., New Bedford, has made plans for converting the present library building into a municipal office building, with rooms for the city council.

ROCHESTER, N. Y.—Contract for the erection of The Seneca, a $1,000,000 hotel, has been let to HERMAN PROBST, 110 West 29th St., New York. RICHARD T. FORD, Rochester, has secured the contract for plumbing. J. N. Beckley is Secy. of the hotel company.

NEW YORK, N. Y.—Clinton & Russell, 32 Nassau St., New York, Archs. for the Hudson & Manhattan R. R. Co., William G. McAdoo, Pres., owners of the Cortlandt St. tunnel, have filed with the Buildings Superintendent the plans for the twin office buildings being built in Church St. in which will be the terminal station of the tunnel route in Church St. now under construction. They are each to be 22 stories high, or 275.9 ft. above the curb and 75 ft. beneath the street level. The Cortlandt St. Building will have a frontage of 214.3½ ft. and a depth of 186.3 ft., and the Fulton St. Building a frontage of 155.9 ft. and a depth of 179.8 ft. The two buildings will contain space for 4,000 offices. The halls will all be of marble paved with terraza. Each building will have ornamental entrances flanked by decorated columns. The Cortlandt St. Building will be equipped with 21 passenger elevators and the Fulton St. Building with 17 passenger elevators and a separate elevator for transporting safes. The plans show in detail the arrangement of space below the sidewalk, which comprises, first, the concourse promenade and passenger waiting rooms and ticket and baggage rooms, next the track floor, and below that the substation and power equipment. These floors are reached both by elevators and staircases. There will be five sets of cartracks for each building, and there will be an underground restaurant and kitchen, as well as telephone stations and barber, bootblacking and parcel rooms for the use of the passengers. The plans also provide for an overhead restaurant and kitchen for the tenants of the myriad of offices. The total cost of the buildings is estimated at $5,000,000.

NEW YORK, N. Y.—Plans have been filed with Buildings Superintendent for a 12-story fireproof commercial building to be erected for Henry Corn, 320 5th Ave., at 22 to 28 West 21st St. It will have a frontage of 100 ft. and a depth of 84 ft., the facade being of brick trimmed with granite and limestone and terra cotta. It is to cost $300,000, according to the estimate of Maynicke & Franke, Archs., 208 5th Ave.

Plans have been filed for a church to be erected for the Roman Catholic Church of St. Paul, Dr. John McQuirk, Rector, at 117th St., east of Park Ave. It is to be 87 ft. front and 158½ ft. deep, with an extension, and will be of Gothic design, with five front entrances. The facade will be of decorated limestone, with two ornamental towers and adorned with statuary in niches over the entrance doors and a great central window of decorated glass. The building is to cost $160,000. Neville & Bagge, 35 West 21st St., Archs.

NEW YORK, N. Y.—Bids are asked until 3 p. m., April 17, by John F. Ahearn, Pres. Boro. of Manhattan, for the erection and completion of a public bath building at Nos. 5 and 7 Rutgers Pl., Boro. of Manhattan; also for installing plumbing work in above bath house.

BUFFALO, N. Y.—Dr. Charles Colton, Bishop of Buffalo, has arranged for construction of a 5-story brick stone-trimmed addition to the Holy Angels' Academy, 158 × 48 ft., to be built on Porter Ave., between Fargo and Prospect Aves., at a cost of $100,000.

CENTRAL ISLIP, N. Y.—Bids are asked until 3 p. m., April 17, by the State Commission in Lunacy, at Albany, for constructing extensions to stable and serving and wash rooms of Kitchens Nos. 2 and 3 and construction of Mortuary Building, including heating, plumbing and electric lighting, at the Central Islip State Hospital, Central Islip. T. E. McGarr is Secy. State Commission in Luancy. G. L. Heins, State Arch., Albany. (Advertised, Engineering News.)

ATLANTIC CITY, N. J.—The contract to erect an auditorium on the pier at the foot of Arkansas Ave. has been awarded to the KEYSTONE STRUCTURAL CO., Harrison Bldg., Philadelphia, Pa., the cost to be about $200,000.

EATONTOWN, N. J.—Bids are asked until 7.30 p. m., April 22, by the Board of Education for constructing a 6-room brick school building at Eatontown. Henry C. Pelton, 1133 Broadway, New York, is Arch. (Advertised, Engineering News.)

WASHINGTON, D. C.—Elliott Woods, Supt. of the Capitol Grounds and Building, Washington, has awarded contracts as follows on the roofing of the new House of Representatives Office Building: For furnishing copper for covering the roof, 29.6 cts. a lb., to U. T. HUNGERFORD BRASS & COPPER CO., Pearl and Park Sts., New York; for furnishing labor and tools necessary to place same on roof, WARREN M. WHYTE, Washington, $6,600.

PHILADELPHIA, PA.—C. W. MacFarlane, 52d and Walnut Sts., contemplates, it is reported, erection of a 4-story apartment house, 140 × 140 ft., at 52d and Market Sts. Brick, stone and terra cotta will be used for construction, with slag roof, open plumbing, mantels, tile work, plate glass, gas and electric fixtures, etc. Cost, $150,000.

Jacob Myers & Son, Witherspoon Bldg., Philadelphia, have filed plans for a 3-story garage, 53.1 × 200.4 ft., to be built at 216 Broad St. for E. H. Godschalk, 23d and Hamilton Sts. Estimated cost, $110,000.

RICHMOND, VA.—It is reported that the International Theatrical Syndicate, O. F. Rhodes, Gen. Mgr. Southern Circuit, will erect $250,000 theater in Richmond and several other Southern cities. REAREM & BILDMORE, Chicago, Ill., are reported to be architects and contractors

PORTSMOUTH, VA.—Improvements are to be made to the Naval Hospital here, involving an expenditure of $200,000. Plans, which are being prepared by Wood, Donn & Deming, Archs., 808 17th St., Washington, D. C., provide for extending the wings on the main front of the building, increasing the width 200 ft. A dome will be placed on the roof, in which the general operating room will be located. An additional building will be constructed, to be used for contagious diseases. A stable will be constructed also.

ATLANTA, GA.—The County Commissioners have decided to erect a court-house to cost $300,000 on the site of the present structure.

ALBANY, GA.—The U. S. Government has purchased a lot in this city for erection of a U. S. post-office and court-house, to cost $112,500, exclusive of price of land. James Knox Taylor is Superv. Arch.

FORT OGLETHORPE (Dodge post-office), GA.—Bids are asked until 11 a. m., May 8, by Capt. H. D. Berkeley, Q. M., for screening the public buildings at Fort Oglethorpe. (Advertised, Engineering News.)

NEW ORLEANS, LA.—The Government will expend $400,000 in erecting about twelve fireproof buildings at Southwest Pass, near Berwood, in connection with work of dredging and maintaining a channel. Structures will include steel warehouse 30 × 80 ft., wharves, machine shops, coaling plant, blacksmith shop and dwellings. Col. E. H. Ruffner, Corps of Engrs., is in charge.

SHREVEPORT, LA.—Sanguinet, Staats & Hill, Archs., Wilson Bldg., Dallas, Tex., have plans and will take figures in about a month for an addition to the New Phoenix Hotel, at Shreveport, for Peter Yource. The building will be constructed of architectural and structural iron and steel, plate glass, marble, mosaic and tile work, hard piaster, with composition roof, gas and electric fixtures, plumbing supplies, etc. $250,000.

NASHVILLE, TENN.—We are officially advised that plans are nearly complete and bids will be called for soon for constructing county jail and court-house, which will cost about $110,000. The structure will be of brick and stone construction, and will have steel cells. Wheeler, Runge & Dickey are Archs.

CINCINNATI, OHIO.—Samuel Hannaford & Sons, Archs., Hulbert Block, have been retained to prepare plans for a group of buildings, to be erected at Montgomery Road and Carthage Ave., for Henry Moeller, Roman Catholic Archbishop, Cincinnati, 636 West 8th St. The group will consist of the following buildings: Archbishop's palace, to cost $80,000; senior seminary building, to cost $250,000; priests' house, parochial school and Cathedral building, to cost $1,000,000.

INDIANAPOLIS, IND.—Henry C. Brubaker, Arch., is preparing plans for erection of a 9-story office building on corner Meridian and Ohio Sts., for the Physicians' and Dentists' Association. Bids will be asked as soon as plans are completed.

Plans have been prepared by the same architect for the Richcreek Bank and office building to be erected on the site of the Phoenix Block at the corner of Market and Delaware Sts. The building will be 78½ × 67½ ft., ten stories high, and will cost about $200,000.

CHICAGO, ILL.—Shepley, Rutan & Coolidge, 84 Van Buren St., are preparing plans for a hospital building, to be erected at Congress and Woods Sts., for the Presbyterian Hospital, 300 South Wood St. The building will be six stories high, 75 × 100 ft., built of brick and stone, fireproof construction, with plate glass, oak and birch finish, iron work, combination light fixtures, nickel plumbing, etc. Estimated cost, $400,000.

George S. Kingsley, 36 La Salle St., is taking figures on an apartment building which will contain 80 flats, to be erected at Irving Park Boulevard and Sheridan Road, for Walter S. Bogle, 303 Dearborn St. It will be three stories high, 316 × 140 × 44 ft., built of press brick, with stone trimmings, composition roof, plate glass, hardwood finish, maple and oak floors, combination light fixtures, mantels, nickel plumbing and galv. iron cornices. Cost, $150,000.

EAU CLAIRE, WIS.—James Knox Taylor, Superv. Arch., Washington, D. C., has published plans for the proposed Federal Building for Eau Claire. The building will be bounded by South Barstow, South River, Gray and Jones Sts.

DES MOINES, IOWA.—D. H. Burnham, Railway Exchange Bldg., Chicago, have let the following contracts for a 11-story brick, stone and steel office building, 132 × 132 ft., to be erected at Sixth and Walnut Sts., for Fleming Bros.; general construction, NICHOLSON BROS., Cincinnati, Ohio; carpenter work, LOVEJOY CONSTRUCTION CO., Des Moines. $250,000.

KANSAS CITY, MO.—We are officially advised that bids will be asked at once for constructing a Y. M. C. A. building at Kansas City. The building will have seven stories and will measure 96 × 132 ft. Steel and concrete will be used for construction. Cost of building, $245,000; equipment, $25,000. C. S. Bishop, 810 Wyandotte St., is Secy. Y. M. C. A. Charles A. Smith, Dwight Bldg., is Arch.

MARYVILLE, MO.—Bids are asked until May 15, by George P. Shoptaugh Elmo, Secy. Board of Regents, for erecting a main building for the Normal School at Maryville. Appropriation, $225,000.

ST. LOUIS, MO.—It is reported that the Hall Real Estate Co. is about to close negotiations for sale of site, 105 × 109 feet, to a syndicate which proposes to erect hotel of twelve stories, steel-frame construction, fireproof, to cost $1,000,000. Structure will be leased by James H. McTague.

DALLAS, TEX.—Lang & Witchell, Archs., Wilson Bldg., have prepared plans for a 3-story and basement high school building for the Board of Education, Thomas G. Terry, Secy. Press brick, stone and reinforced concrete will be the material of construction, plate glass, marble and tile work, hard plaster, composition roof, structural iron and steel work, gas and electric fixtures, water closets, washstands, etc. Estimated cost, $135,000. Bids will be received by the Board in about two weeks.

TACOMA, WASH.—THE PACIFIC CONSTRUCTION & DEVELOPMENT CO., of Seattle, has been awarded a contract for the erection of a 10-story apartment or family hotel to be erected immediately in Tacoma. The building, to be known as the Empire, will be erected on C St., at the foot of Sixth Ave., and adjoins the Union Club. It will have a frontage on both C St. and Cliff Ave., and is to occupy a site 240 × 108 ft.

SPOKANE, WASH.—D. C. Corbin is having plans prepared for a 6 or 7-story building to be located at the corner of Main Ave. and Washington St. This site has a frontage of 100 ft. on Main Ave. and a depth of 142 ft. Such a building as Mr. Corbin contemplates erecting would probably cost between $150,000 and $200,000.

PORTLAND, ORE.—Plans are being drawn by Whidden & Lewis, Concord Bldg., for a 7-story and basement, steel frame, Class A building, 50 × 100 ft., for Rotschild Bros., to be erected at corner of Fourth and Washington Sts. Estimated cost, $150,000.

SAN FRANCISCO, CAL.—A 7-story steel frame building, to cost $200,000, and to be located at the corner of California and Montgomery Sts., will be erected by E. A. Bridgford and B. G. White, trustees for Jack Clunie.

The Schroth Company will erect a 10-story Class A building on the corner of Stockton St. and Union Square Ave., to cost $200,000.

M. P. Sheideman has applied for a permit to erect a 5-story brick hotel building at a cost of $130,000. It will be located on the corner of Howard and Sixth Sts.

The Alaska Commercial Co., Kohl Bldg., is making arrangements to erect a 12-story Class A structure to cost $500,000. It will be located at the corner of California and Sansome Sts. Application has been made for the permit to build.

SAN FRANCISCO, CAL.—The San Francisco "Call" states that the owners of the Emporium, Post and Van Ness Sts., have completed negotiations with the Parrott estate to erect for them a new building, covering the Parrott building site, 270 ft. in Market St., and running back 350 ft. through Stevenson to Jessie Sts. The new structure will be called the Emporium Building, and will be leased for 25 years. The new Emporium is to be built on the same lines as the old one, including the interior dome and vestibule. The Market St. front will be seven stories in height, and the remainder of the building will have three floors and basement. The big department store will occupy the entire building with a floor space of 600,000 sq. ft. This is more than three times as large as any present mercantile establishment in the city. Work on the new building will begin immediately and it is the intention of the builders to operate both day and night shifts until it is completed.

The Metropolis Trust & Savings Bank building which is to be erected on the corner of Market and New Montgomery Sts., the former Grand Hotel site, will be Class A in every detail, fourteen stories in height, with three electric elevators. Estimated cost, $600,000. L. B. Dutton, Chronicle Bldg., is Arch.

A 10-story Class A building, to be known as the Balboa Building, is to be erected for Mrs. A. A. Moore, Jr., on the corner of Market and Second Sts. The ground floor will be arranged for stores, and the second floor will be arranged as desired by the tenants. The front of the building will be finished with pressed brick and terra cotta. Three passenger elevators will be installed. The structure was designed by Bliss & Faville, Archs., Hotel St. Francis, and the construction will be done by MAHONEY BROS., contractors.

SAN FRANCISCO, CAL.—Plans have been completed for and construction will begin at once on the new building of the First National Bank, on the site of the old Masonic Temple, corner of Post and Montgomery Sts. D. H. Burnham & Co., Merchants' Exchange Bldg., have designed a Class A building, which is to cost approximately $800,000. It will cover 75 × 100 ft.

WINNIPEG, MAN.—Warren & Whetmore, Archs., 3 East 33d St., New York, are preparing plans for the combined hotel and depot to be erected in connection with the Canadian Northern and Grand Trunk Pacific railways, at an estimated cost of about $3,500,000. M. H. McLeod in Ch. Engr., C. N. Ry. Co. Hugh Sutherland, Executive Agent.

J. D. Atchison, Northern Bank Bldg., is preparing plans for a 12-story fireproof office building to be erected on Main St. for A. M. Fraser at an estimated cost of $175,000.

MOOSEJAW, SASK.—Plans are now being prepared in Montreal for a hotel to be erected here at a cost of $175,000 for the Canadian Pacific Ry. Co. Hayter Reid is Supt. of Hotels, Montreal, Que.

WATER SUPPLY—[illegible] GATION.

The names of parties awa[illegible] controcts are printed in capit[illegible] re.

ALBANY, N. Y.—Bids [illegible] asked by the Board of Contract and Sup[illegible] April 15, for furnishing [illegible] for preliminary filters for water supp[illegible] and for cast-iron water pipes and [illegible] for the preliminary filters. Is[illegible] Clk. Wallace Greenalch is [illegible] Water Supply reau.

Bids are asked by the [illegible] of Contract and Supply until 3 p. m. [illegible] for construction of preliminary [illegible] for the water supply system. Wal[illegible] Engr.

NEW YORK, N. Y.—Bid[illegible] asked by the Department of Parks, [illegible] Herrman, Pres., until 3 p. m., April [illegible] for furnishing, delivering and laying [illegible] marine and appurtenances in Central [illegible] north of 97th St.

ROME, N. Y.—The Board [illegible] Water and Sewer Commissioners has de[illegible] to lay 36-in. trunk water main in Ea[illegible] District. Bids will soon be asked. Jo[illegible] Pinkham is City Engr.

BRIDGETON, N. J.—Bids [illegible] asked by the Water-Works Committee, Fr[illegible] McGalliard, Chm., until 12:30 p. m., A[illegible] for repairing reservoir. The work [illegible] to take down two upper courses of s[illegible] tank 200 ft. in diameter; lowering roof [illegible] for furnishing and placing about 110 c[illegible] of steel reinforcement and about 450 [illegible] cu. yds. of concrete. (Advertised, Engineer[illegible] News.)

RAHWAY, N. J.—The C[illegible] Water Co. April 2 granted the Middl[illegible] permission to lay 16-in. ma[illegible] through the city to carry water from Ro[illegible]'s Branch Rahway River, to Woodbridge [illegible] Carteret, Franklin Marsh is City Engr.

CONEMAUGH, PA.—The [illegible] Pennsylvania R. R. Co. will construct dam [illegible] above Conemaugh, for storage and distributing purposes. It will be partly abo[illegible] and partly beneath the present surface level and will hold 4,000,000 gallons of water.

WASHINGTON, D. C.—Bids [illegible] are asked by the District Commissioners until noon, April 27, for furnishing 1,000 tons c[illegible] water pipe. (Adveritsed, Engineering News.)

EUTAW, ALA.—A water-work[illegible] system will be installed.

EAST LAKE (Birmingham post-office), ALA.—The Boys' Industrial School will install purification plant. Cost, about [illegible] Julian Kendrick, City Engr., Birmingham, is Engr.

LOUISVILLE, KY.—The Board of Water-Works has let contract to the AHRENS & OTT MFG. CO. for supplying gate valve at water-works plant, at $10,300. Joseph P. Claybrook is City Engr.

CINCINNATI, OHIO.—Bids are asked by the Board of Public Service, M. J. Keck, Clk., until noon, April 22, for furnishing materials, patterns, tools, appliances, labor, transportation and hauling c.-i. water pipe and special castings. Charles N. Bachower is Ch. Engr., Bd. Public Service.

CLEVELAND, OHIO.—Bids are asked by the Board of Public Service until April 16 for furnishing as many hydrants as may be required during the present year. A. R. Callow is Secy.

LAFAYETTE, IND.—Bids are asked until April 20 by John P. Foreman, County Auditor, for alterations and construction and equipment at the County Asylum, comprising the following: Furnishing material, altering and extending present boilerhouse; 8-in. and 6-in. deep well with casings and strainer ready for deep well pump; furnishing, erecting and completing channel tower substructure with steel tank and concrete foundations, including roof and full equipment; furnishing, erecting and completing star column steel tower substructure and wood tank, including roof and full equipment; general water supply system; furnishing and setting two boilers, including foundations and removing present boilers, and new boiler house feed pump and resetting one old pump and connections.

MILWAUKEE, WIS.—The Board of Public Works, Peter J. Koehler, Deputy Comptroller, has awarded contract for furnishing material and constructing for the Water Department a concrete tunnel under and across Kinnickinnic River, at Becker St., from a point about 50 ft. west of west dock line of Kinnickinnic River to a point about 50 ft. east of east dock line in the Twelfth Ward, to C. J. CRILLEY, 2,018 Cedar St., at $24,100. Charles G. Poetsch is City Engr.

STAPLES, MINN.—Bids are asked by J. D. Marlin, City Clk., until 3 p. m., April 23, for constructing water-works and sewerage system. Oscar Claussen, at St. Paul, Minn., is Consult. Engr. (Advertised, Engineering News.)

RED CLOUD, NEB.—The water-works system will be repaired and extended.

BRITTON, S. DAK.—Bids are asked until April 17 by W. M. Jannig, City Audr. for laying 3-in. c.-i. main on portion of Main St. and Vanderhorck Ave.

MANDAN, N. DAK.—The city contemplates installing water-works.

WILLISTON, N. DAK.—The Secretary of the Interior has let contract to JENSON & KING, of Williston, N. Dak., at $20,868 for construction and completion of Division A, canals and structures, Buford-Trenton Irrigation project, N. Dak. The contract calls for the excavation of 32,000 cu. yds. of material, the construction of 13 miles of canal and waste ditches, and placing concrete and sheet pilling, and construction of seven bridges, together with a number of flumes, culverts, etc. A contract has been awarded to JOHN S. PENSON for the construction and completion of Division D of the same project. The contract calls for the various materials and labor for a pumping station in connection with the above project, and amounts to $3,333.

MOHALL, N. DAK.—A water works system may be installed.

FORSYTH, MONT.—Bids are asked until May 3 for installing water-works plant. Estimated cost, $40,000. The Iowa Engineering Co., of Clinton, Iowa, are Engrs.

GLENDIVE, MONT.—The Secretary of the Interior has awarded contracts for the construction of laterals and waste ditches for the Lower Yellowstone Irrigation Project, Mont., as follows: Schedule 1, consisting of about ten miles of laterals and 4.5 miles of waste ditches, to H. FREEMAN & CO., of St. Cloud, Minn., at $25,205. Schedules 2 and 3, consisting of 74 miles of laterals and about 30 miles of waste ditches, to ARTHUR J. COATES CO., St. Cloud, Minn., at $111,846.

BILLINGS, MONT.—In September, 1906, one bid was secured for the construction of Division 1 of the Garland Canal, Shoshone Irrigation Project, Wyo., but was rejected by the Secretary of the Interior as being unreasonably high. Subsequent efforts were made to secure proposals, but without success, and in February authority was granted for the Reclamation Service to construct the work under force account. An informal proposal has now been received from W. D. LOVELL, of Minneapolis, Minn., for doing this work. The contract has been awarded. The work involves about 18,000 cu. yds. of grading, [illegible] cu. yds. of concrete, the placing of 127,000 lbs. of steel reinforcing bars, and other incidental work. Mr. Lovell's bid was $50,544. Every effort is being made by the engineers of the Reclamation Service to complete each unit of this project so as to irrigate approximately 25,000 acres of land in 1908.

SARCOXIE, MO.—Contracts for constructing water-works have been awarded as follows: To the DES MOINES BRIDGE & IRON WKS., of Des Moines, Ia., for steel tower 100 ft. high and tank of 30,000 gallons capacity, including foundation; to FAIRBANKS, MORSE & CO., of St. Louis, Mo., pump and engine, and to the CENTRAL FOUNDRY CO., Chicago, Ill., pipe and specials. Burns & McDonnell, of Kansas City, Mo., are Engrs.

BOONEVILLE, ARK.—A company composed of capitalists from Denver, Colo., will apply to the City Council for franchise to install water-works system at this place.

SAN ANGELO, TEX.—The San Angelo Water-Works Co. is contemplating installing 3,000,000-gallon pumps, direct conducted to steam turbines. W. A. Guthrie is manager.

SNYDER, OKLA.—The City has awarded contract to W. W. COOK, Junction City, Kan., at $28,599, for construction of water-works and electric-light and sewerage systems.

COLORADO SPRINGS, COLO.—A system of 18 reservoirs, to store 10,000,000,000 cu. ft. of water, and to irrigate a large area in Fremont and Pueblo Counties, will be built by eastern capitalists, with A. E. Wilson and K. C. Scyler, of Denver, promoters. The estimated cost is $3,500,000. According to plans filed a canal 50 to 75 miles long will be constructed from Four Mile Creek in Fremont County to Fountain Creek in El Paso County.

PUEBLO, COLO.—Former Congressman H. M. Hogg has filed a plan for reservoir to be established near Eden, eight miles north of here. The dam will be 12 ft. high and the area of the water impounded will be about 8,000,000 sq. ft. The reservoir will have a capacity of 26,000,000 cu. ft.

THORP, WASH.—The Taenum Water-Works Co., of this city, has been incorporated at $150,000 by Fremont N. Calkins and associates.

MABTON, WASH.—The Town Council has let contract for digging city well to F. G. McCALLUM at 1.20 per ft.

MONTREAL, QUE.—The Water Commission has recommended to the City Council construction of a lateral conduit as suggested by Water Supt. Janin, and also the widening and deepening of the present aqueduct canal; the committee also recommended that John Kennedy and Ernest Marceau be named as consulting engineers to examine and report on the feasibility of the project. Estimated cost, $2,132,000.

TRURO, N. S.—The water-works system will be improved and extended. The work consists of straightening and laying water mains, installing 150-HP. boiler and adding to the present water-works system. Estimated cost, $15,200. The sewerage system will also be extended.

SEWERAGE.

WATERBURY, VT.—Bids are asked by C. C. Graves, Pres. Board of Village Trustees, until 10 a. m., April 23, for laying approximately six miles of 6 to 8-in. sewers. John L. Collins, 444 Broadway, Albany, N. Y., is Engr. (Advertised, Engineering News.)

WATERBURY, CONN.—We are officially advised that bids were received April 2 by the Board of Public Works for constructing Section 3, Main Carrier, Sewage Disposal Works, including filter influent and effluent conduits, grit chamber, substructure for controller house, and appurtenances, as follows: Long & Little, Leominister, Mass., $55,559; Beach & Beebe, Utica, N. Y., $65,445, and F. T. Ley & Co., Springfield, Mass., $70,161. The approximate quantities of work are as follows: Earth excavation, 15,000 cu. yds.; rock excavation, 2,500 cu. yds.; brick masonry 40 cu. yds.; concrete masonry, Class A, 500 cu. yds.; concrete masonry, Class B, 2,000 cu. yds.; concrete masonry, Class C, 100 cu. yds.; split-stone masonry, 25 cu. yds.; ashlar masonry, 12 cu. yds.; granolithic floor, 30 sq. yds.; slope paving, 200 cu. yds.; riprap, 250 sq. yds.; setting sluice gates; cast-iron pipe, 4-in., 28 tons; cast-iron pipe specials, 4-in., 1 ton; terra cotta 2-duct conduit, 500 ft. Itemized bids are given this week under Contract Prices. Robert A. Cairns is City Engr.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., April 24, for furnishing material and constructing sewers and sewer basins in various streets, Boro. of Brooklyn.

NEW YORK, N. Y.—Bids are asked by George Cromwell, Pres. Boro. of Richmond, until noon, April 16, for furnishing all materials required for constructing temporary combined sewer and appurtenances in sewerage district No. 2A, Second Ward, Borough of Richmond.

LANCASTER, N. Y.—The village has voted to spend $150,000 constructing sewers and sewage disposing system. The water-works system will be extended.

UTICA, N. Y.—Bids are asked by the Mayor until May 3 for laying storm water drain along Pleasant St. and through private property.

CRANFORD, N. J.—Bids will soon be asked for laying sewers.

PERTH AMBOY, N. J.—Bids are asked by the City Council until 8.30 p. m., April 15, for constructing (A) Broad, (B) Jefferson and (C) Sheridan St. sewers. The work consists of approximately the following quantities: (A) 2,175 lin. ft. 24-in. vitrified pipe sewer with 6-in. Y's, average cut, 13 ft.; 7 manholes, complete with standard covers, and 15 catch basins. (B) 300 lin. ft. 15-in. vitrified pipe sewer with 6-in. Y's; 2 manholes complete with c.-i. covers; 2 receiving basins with granite covers and 12-in. connections complete and 1 lamp hole. (C) 700 lin. ft. 7-ft. brick sewer, average cut, 17 ft.; 700 lin. ft. 7-ft. concrete sewer, average cut, 17 ft.; 1,000 lin. ft. brick sewer on pile, timber and concrete foundation; 1,000 lin. ft. reinforced sewer on pile and timber foundation; 260 lin. ft. of two 5-ft. c.-i. pipes laid parallel on piling; 300 lin. ft. double reinforced 7-ft. concrete sewer on pile and timber foundation; 4 standard catch basins complete with connections, covers, etc., and 6 manholes complete with c.-i. collar and cover. William H. Fullerton is Street Comr.

SCRANTON, PA.—Bids are asked by C. R. Acker, Dir. Department Public Works, until 11 a. m., April 22, for constructing main and lateral sewers in Twelfth sewer district, in 4th, 14th and 21st Wards.

WINCHESTER, VA.—Plans and specifications are being prepared by N. Wilson Davis, of Harrisburg, Va., for laying 18 miles of 8 to 20-in. pipe sewers.

WHEELING, W. VA.—See under Streets and Roads.

LANDERSVILLE, GA.—Bids are asked until 3 p. m., April 29, for constructing complete about six miles of 8 to 15-in. sewers, with manholes, flush tanks, etc. Arthur Pew is Consult. Engr., 619 Temple Court, Atlanta, Ga.; D. L. Cheatham, Landersville, is Mayor. (Advertised, Engineering News.)

LENOX, TENN.—Bids are asked until April 15 for constructing sewers. Estimated cost, $10,000.

DAYTON, OHIO.—The Board of Public Service has let contract to NORMAN F. DILL, at $3,703, for constructing storm sewers in portions of East Third, Germantown and Adams Sts. Robert E. Kline is City Engr.

YOUNGSTOWN, OHIO.—Bids are asked by the Board of Public Service, G. T. Prosser, Clk., until noon, April 18, for furnishing material and constructing sewer in Seneca St. from Oakland to Delaware Aves.

LUDLOW, OHIO.—The City Council has ordered construction of sewers.

SPRINGFIELD, OHIO.—The City Council has decided that the proposed Indiana Run sewer shall run from Main and Western Aves. through the fair grounds, south and east in State St., through the Highlands to Prairie Ave. Estimated cost, $41,083. W. H. Sieverling is City Engr.

PORTSMOUTH, OHIO.—The City Building branch of sanitary sewers will be extended east to Bond St. B. Bratt is Engr.

DOWAGIAC, MICH.—The city April 1 voted to issue bonds amounting to $53,250 for constructing trunk sewers. Plans have been prepared by A. J. Hammond, Consult. Engr. J. S. Haines is City Surv.

ELGIN, ILL.—The THOMAS J. PETER CO. has been awarded contract for constructing sewers.

AUGUSTA, ILL.—The contract for constructing sewers and water-works system has been awarded to the E. BEST CO., of Quincy, Ill.

DANVILLE, ILL.—The following are the bids opened March 21 for construction of about 8,000 ft. of sewers: A. C. Schreiter & Co., Manitowoc, Wis., $34,347; CHAS. COTTINGHAM, Danville, $27,000 (awarded contract); Maulering Constr. Co., Ft. Wayne, Ind., $32,368, and W. H. McGovern, Chicago, Ill., $33,609.

JOLIET, ILL.—WILLIAM MORAN has secured contract for constructing Center St. sewer and water main.

FOND DU LAC, WIS.—JAMES McCABE has been awarded contract for constructing sewers in Merrill, Amory and Olcott Sts., at $4,898. L. A. Pettibone is City Engr.

TOMAH, WIS.—Bids are asked until 3 p. m., April 26, for constructing about 5½ miles of pipe sewers and appurtenances and septic tank. D. J. Aller is City Clk.

BOONE, IOWA.—The C. B. SHERMAN CO., of this city, has secured contract for constructing 7,630 lin. ft. of sewers. K. C. Kastberg is City Engr.

STAPLES, MINN.—See under Water Supply—Irrigation.

PIERRE, S. DAK.—Bids will probably be asked soon for constructing sewers. Estimated cost, $35,000.

BELLEVILLE, MO.—The Board of Local Improvements has awarded contract to REEB BROS. CONSTRUCTION CO., of this city, for constructing Chestnut and Iron St. sewers.

SHAWNEE, OKLA.—CHARLES T. DERR, of Oklahoma City, Okla., has secured contract for furnishing material and constructing main sanitary sewer system, at $103,238. The following are approximate quantities of materials required: 15,929 lin. ft. 10-in., 28,872 lin. ft. 12-in., 4,873 lin. ft. 15-in., 2,981 lin. ft. 18-in., 2,985 lin. ft. 24-in. and 2,725 lin. ft. 27-in. pipe; 1,926 lin. ft. No. 153 manholes; 149 lin. ft. No. 16 lamp holes; 254 lin. ft. No. 21 flush tanks; 69,000 lbs. iron; 13 cu. yds. concrete; 2,210 lin. ft. 1-in. galvanized service pipe and 244 2½-ft. 10-in. slants.

BAKERSFIELD, CAL.—The city has voted to issue bonds amounting to $120,000 for constructing main and outfall sewers and septic tank. J. L. Evans is City Engr.

WOODSTOCK, ONT.—Bids are asked by John Morrison, City Clk., until 4 p. m., April 17, for constructing storm sewers as follows: (A) South system, containing about 3,300 lin. ft. of 12 to 24-in. pipe. (B) North system, containing about 7,500 lin. ft. 8 to 22-in. pipe. (C) Supplying necessary pipe, part vitrified sewer pipe and part concrete pipe. F. J. Ure is City Engr.

AYLMER, QUE.—A sewerage system will be installed. Estimated cost, $60,000.

WINNIPEG, MAN.—Bids will soon be asked by the Board of Control for supplying ten miles of sewer pipe.

WINNIPEG, MAN.—Bids are asked by the Board of Control, Magnus Peterson, Secy., until noon, April 30, for supplying sewer pipe. H. N. Ruttan is City Engr.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Bids are asked until 11 a. m., May 4, at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing brick and granite pavements at the Navy Yard, Boston. Specifications are on file at office of Engineering News, New York.

HOLYOKE, MASS.—Specifications and bidding sheets for paving about 10,000 sq. yds. with vitrified paving bricks or blocks are on file at office of Engineering News, New York. Bids are asked until April 16. James Tighe is City Engr. (Advertised, Engineering News.)

WESTERLY, R. I.—The Town Council has let contract for widening, macadamizing and improving highway leading from Westerly to Watch Hill, an approximate distance of 10,000 ft., to the T. H. GILL CO., 88 Broad St., Boston, Mass., at $13,206. The work consists of about 6,000 cu. yds. of earth excavation, 4,500 tons of macadam in place, 475 rods of walls and fences to be moved, and 350 cu. yds. of retaining walls.

ALBANY, N. Y.—The Board of Contract and Supply has awarded the following contracts: For improvement of John St., from Broadway to Franklin St., to E. F. DILLON, Albany, N. Y., for $10,107; improvement of Philip St., from Warren St. to Park Ave., to MULDERRY BROS., Albany, for $4,002, and for improvement of Arch St., from Church to South Pearl St., to JOHN DOYLE, Albany, for $12,662. Walter Mellus is City Engr.

Bids are asked by the Board of Contract and Supply, until 3 p. m., April 15, for improvement of Western Ave., from terminus of present pavement to the city line. The work includes grading, paving the carriageway with macadam, and constructing culverts and ditches, or grading, curbing, paving the carriageway with vitrified blocks, and constructing culverts and ditches.

WATERTOWN, N. Y.—Bids are asked until 5 p. m., April 24, by Henry E. Baker, City Engr., for paving about 2,500 sq. yds. on Pearl St., between Moulton and Water Sts., and 4,500 sq. yds. on Mill St. Bids will be received on Medina block, vitrified brick and bitulithic pavement. (Advertised, Engineering News.)

NEW YORK, N. Y.—Bids are asked by George Cromwell, Pres. Boro. of Richmond, until noon, April 16, for furnishing material and laying flag or cement sidewalks, paving with asphalt and macadam, portions of various streets, Boro. of Richmond.

FT. TOTTEN, N. Y.—Bids are asked by the Constructing Quartermaster until 10 a. m., May 1, for grading, constructing macadam roads, gutters, drains and concrete walks.

BUFFALO, N. Y.—Bids are asked by the Department of Public Works, F. G. Ward, Comr., until 11 a. m., April 16, for repaving portions of Genesee and High Sts.

Bids are asked by the Department of Public Works, F. G. Ward, Comr., until 11 a. m., April 18, for paving portions of Concord, Newton and Geneva Sts.

FT. HANCOCK, N. J.—Bids are asked by William Paterson, Lieut. and Q. M., until noon, May 1, for constructing roads. (Advertised, Engineering News.)

PERTH AMBOY, N. J.—Bids are asked by the City Council until 8.30 p. m., April 15, for grading Compton Road, from Woodbridge Road to Groom St. The work consists of approximately 3,446 cu. yds. earth cut and 1,800 cu. yds. earth fill. William H. Fullerton is Street Comr.

BLOOMFIELD, N. J.—Bids are asked until April 18 by the Town Council for furnishing about 2,000 tons broken stone delivered at such points in the town as may be designated by the Road Commissioner. William L. Johnson is Town Clk.

ELIZABETH, N. J.—Bids are asked until April 15 by the City Council for grading, curbing and flagging portions of five streets, requiring 5,351 lin. ft. 4-ft. flag; 5,506 lin. ft. new curb, etc. William H. Luster, Jr., is City Surv.

MT. HOLLY, N. J.—Bids are asked by the Road Commissioner of the Board of Chosen Freeholders until 10 a. m., April 29, for macadamizing Lumberton and Medford Road, 3.9 miles in length, and the former Westfield and Camden Turnpike, 3¼ miles in length.

BRIDGEPORT, PA.—Bids are asked until April 27, by the Street Commissioner, Geo. M. Rathmell, Chn. Cadwallader, Pa., for improving various streets, requiring from 10,000 to 12,000 yds. of paving.

WASHINGTON, D. C.—The District Commissioners have awarded to the BRENNAN CONSTRUCTION CO., 3656 K St., N. W., contract for renewing, resurfacing and repairing pavements, at the following prices: Laying asphalt pavement, concrete base type "A," $1.63; same, base type "B," $1.69; standard asphalt surface, 67 cts. per sq. yd.; standard asphalt surface (measured in cart), 49 cts. per cu. yd.; asphalt binder (measured in cart), 28 cts.

The WASHINGTON ASPHALT BLOCK & TILE CO., South Capitol and K Sts., Washington, has secured contract for furnishing and laying asphalt block paving for the next fiscal year at $1.80 and $1.65 per sq. yd., for the 3-in. and 4-in. sizes respectively.

WHEELING, W. VA.—Bids are asked by the Board of Public Works, Wm. E. Bowers, Clk., until noon, April 15, for furnishing paving brick, sewer pipe and stone curbing from May 1, 1907, until June 1, 1908, also for dressing and re-setting old curb. Charles B. Cooke is City Engr.

ATLANTA, GA.—Bids are asked by the General Council until April 15, for constructing underpass for pedestrians on west side of Pryor St. crossing of the N. C. & St. L. R. R. tracks. R. M. Clayton is City Engr.

Bids are asked until 3 p. m., April 15, by the General Council for repaving portion of Edgewood Ave. with creosote blocks, asphalt or bitulithic pavement, requiring about 24,000 sq. yds.

ALBANY, GA.—The ALBANY PRESSED STONE CO. has secured contract for laying sidewalks on Broad and Washington Sts. at 15 cts. per sq. ft. Total cost, about $5,250.

LISBON, OHIO.—Bids are asked until April 25, by Sam Houston, State Highway Comr., for constructing state highway.

COLUMBUS, OHIO.—Bids are asked by Sam Houston, State Highway Comr., Columbus, until April 24, for constructing state highway.

CHAGRIN FALLS, OHIO.—Bids are asked until May 4 by H. D. Bishop, Village Clerk, for grading, curbing and paving with 4-in. paving block a portion of Orange St.; also a portion of Franklin Ave. Walter P. Rice Engineering Co., Engrs., Society for Savings Bldg., Cleveland.

WADSWORTH, OHIO.—Bids are asked until April 23 for furnishing material and grading, draining, curbing and paving with block paving Main and High Sts.

LIMA, OHIO.—Bids are asked until April 16 by the Board Public Service, for paving portions of five streets. L. L. Crumrine is Secy.

YOUNGSTOWN, OHIO.—Bids are asked until April 18 by the Board Public Service, for paving portions of Fifth Ave. and Broadway. G. T. Prosser is Clerk.

UPPER SANDUSKY, OHIO.—Bids are asked until noon, April 19, by J. N. Traxler, County Audr., for grading and stoning the Antrim Township Road Improvement No. 14.

GREENCASTLE, IND.—Bids are asked by the Board of Commissioners of Putnam County until April 27, for improvement, 1,008.5 ft. of macadamized road in Greencastle Township; 7,975 ft. of macadamized road in Marion Township, and 11,215 ft. of gravel road in Washington Township, according to plans and specifications on file with C. C. Hurst, County Auditor.

ADRIAN, MICH.—The BARBER ASPHALT CO. of Philadelphia, Pa., has secured the contract for paving College Ave. and Broad St. with asphalt without excavation, curbing, catch basins and inlets for $51,895. John Mawdsley is City Clerk.

GRAND RAPIDS, MICH.—The Board of Public Works has let contract for the improvement of Logan St. to KLOOTE & VANDERVEEN for $12,635. CHARLES J. CARPENTER secured the contract for the improvement of Fountain St. with creosote block for $14,129.

HASTINGS, MICH.—The Common Council has opened bids for paving the business portion of the city and awarded the contract to the lowest bidder, C. J. CARPENTER, of Grand Rapids, for $25,714.06. The contract calls for brick paving on concrete foundation of three blocks of State, one of Jefferson and one of Church Sts.

LINCOLN, ILL.—Bids are asked by the Board of Local Improvements until 2 p. m., April 15, for brick block pavement on Portland cement gravel concrete foundation. E. G. King, Pres. Bd. (Advertised, Engineering News.)

REEDSBURG, WIS.—Bids are asked until April 15, for brick block pavement on Porting certain streets.

FOND DU LAC, WIS.—Bids are asked until 2 p. m., April 29, by the Board of Public Works, for grading, etc., on East First St., from Main St. to Park Ave. L. A. Pettibone is City Engr.

ST. PAUL, MINN.—The following contracts for street paving have been awarded by the Board of Public Works: Lawson St., KEOUGH BROS., $4,263; Sixth St., BARBER ASPHALT CO., $21,900; Cretin Ave., JAMES FORRESTAL, $3,991. L. E. Rundlett is City Engr.

LAWRENCE, KAN.—Bids are asked until 5 p. m., April 15, by F. D. Brooks, City Clk., for grading, curbing and paving with vitrified brick various streets in this city. Holland Wheeler is City Engr.

COLUMBIA, WASH.—The Council proposes to grade, plank and construct sidewalks on Caldwell, Hudson, Winston and Americus Sts. Estimated cost, $40,000.

SUNNYSIDE, WASH.—The contract for the grading of the streets of Sunnyside has been let by the City Council to M. McKIVOR, of North Yakima. Approximately 2½ miles of streets will be graveled. Work will be begun in about three weeks, and it is estimated it will take about four months to complete the contract.

SPOKANE, WASH.—The Board of Public Works has awarded the following contracts for grading, curbing and parking Second Ave. between Walnut and Coeur d'Alene Sts.: H. L. LILENTHAL, $5,926; for sidewalking Second Ave. in same section, COPSON & CARSON, $3,898.

TACOMA, WASH.—THOMAS & LANGDON have been awarded the contract for grading F St. for $6,975.

PORTLAND, ORE.—N. M. MOODY has been awarded the contract at $12,269 for the improvement of East Stark St., between East Ninth and East Twelfth Sts., at a meeting of the Street Committee of the Executive Board. The following street improvement contracts were awarded; also Clackamas St., between Union Ave. and Crosby St.: STAR SAND CO., $5,024; East Lincoln St., between Marguerite and Prettyman Aves., STEVENS BROS., $4,271.

EUGENE, ORE.—The City Council has let its paving contract to the WARREN CONSTRUCTION CO.

MODESTO, CAL.—The WORSWICK PAVING CO., of Fresno, has been awarded contract for paving the streets of this city. The streets included in the bid are the two blocks on I, and a block on both H and Tenth Sts., and the amount is about $17,000. The itemized bid is 19½ cts. per sq. ft. for paving, 20 cts. per sq. ft. for gutters, and 75 cts. per lin. ft. for gutters.

NAPANEE, ONT.—Bids are asked until April 13, by the Town Clerk, for supply of Portland cement, vitrified brick, sand, stone, sewer pipes and other municipal supplies.

TORONTO, ONT.—The Board of Works has recommended the construction of a concrete wall at Ashbridge's Bay, cost $64,000, also laying of the following pavements: Asphalt, Gladstone Ave., Queen to Dundas Sts., cost, $16,279; Franklin Ave., Ruskin Ave. to north end, cost, $10,496; Barton Ave., Christie St. to Manning Ave., cost, $4,149; Duchess St., Jarvis to Sherburne Sts., cost $7,807. Vitrified block—Esplanade, on east side of Don River, from Queen St. to 250 ft. north of Matilda St., cost, $9,465. C. H. Rust is City Engr.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

CLINTON, MASS.—Preparations are being made to move buildings to clear a site for the new mill of the Bigelow Carpet Co., 490 Main St., which will be of four or five stories, and give employment to about 200 hands. Thirty looms are now being built for the mill. A power plant will be constructed near the new mill.

HOLYOKE, MASS.—The Barlow Mfg. Co. let contract to CASPER RANGER, of Holyoke, for a 4-story building, 130x70, with an L, 60x30 ft.

LEOMINSTER, MASS.—Thompson & Gallagher, Archs., 339 Main St., Worcester, Mass., have been engaged by the F. A. Whitney Carriage Co., Water St., to make plans for a 4-story brick addition, to cost $40,000.

PITTSFIELD, MASS.—OSTEYEE BROS. have been awarded contract to erect one of factory buildings which are to be built during the spring and summer by the Stanley Instrument Co. The building is to be 1-story, about 200x150 ft., and will be located northeast of the entrance to the plant and at the south end of the Wright property. It will connect with the blacksmithing and sawtooth buildings, and is to cost about $80,000. Osteyee Bros. will begin work at once.

NEW BEDFORD, MASS.—It is reported that the Wamsutta Corporation will erect another weave shed opposite the new one which has recently been built. The ground is now being cleared.

PAWTUCKET, R. I.—The Pawtucket Mfg. Co., Pine St., has obtained three permits from Louis A. Murphy, Bldg. Inspector, allowing it to erect three additions to its present plant. The new structures are to be of brick and wood and the dimensions are 24x40 ft., 72x40 ft. and 112x40 ft. The contracts for the erection of the additions have been let to WILLMARTH & MACKILLOP and the work on the buildings will be begun at once. The structures will be used for the storing of iron stock.

PROVIDENCE, R. I.—HARTWELL & KINGSTON have the contract to build an additional story, 32x52 ft., to the factory of the National Ring Traveler Co.

TORRINGTON, CONN.—We are officially advised that the contract to construct a factory building for the Union Hardware Co., 408 Migeon Ave., Torrington, has been awarded to TRACY BROS. CO., 52 Benedict St., Waterbury, Conn. The main building is to be 100x150 ft., with two stories, and the L will be 40x75 ft., with three stories. Richard P. Jenks; Providence, R. I., is Arch.

BUFFALO, N. Y.—Francis Perot's Sons Malting Co. have filed plans in the Bureau of Buildings for a fireproof malt house to be erected on the south bank of the Buffalo River near Childs at a cost of $125,000.

GLENS FALLS, N. Y.—J. P. Baumann & Sons, shirt manufacturers of Warrenburgh, have awarded contract to MILLER BROS., of Glens Falls, for the erection in Glens Falls of a 3-story shirt and waist factory to be completed and ready for installation of machinery by July 1. The firm will employ between 400 and 500 men at the start. The new factory will be constructed of concrete blocks.

TRENTON, N. J.—The Trenton Iron Co., Trenton, intends to erect two 1-story brick additions to its plant for the purpose of increasing its wire production. One of the buildings will be 65x90 ft. and the other 83x130 ft.

McKEESPORT, PA.—The N. C. DAVISON CO., Empire Bldg., Pittsburg, has secured a contract from the National Tube Co., Frick Bldg., Pittsburg, for four large electric quintuplex power pumps, motor driven, having a capacity of 150 gallons a minute against 1,100-lb. pressure. These pumps will be made by the Allentown Rolling Mills, Allentown, Pa., and will be installed in the National Department of the National Tube Co., at McKeesport, for testing pipe.

ERIE, PA.—John O. Keller, Hazlewood Ave., has secured the contract to construct a 2-story brick box factory building for the American Box Co. T. J. Schaub is Arch., Sterritt Bldg., Allegheny, Pa.

PHILADELPHIA, PA.—WILLIAM STEEL & SONS, 1600 Arch St., have secured the contract to erect for the Brown-Moore Hosiery Co., at Hancock and Westmoreland Sts., a 5-story brick and concrete factory which is to cost about $200,000.

The Henry Goldner & Son Co., Trenton and Susquehanna Sts., Philadelphia, Pa., is to replace its buildings, which were recently destroyed by fire, with a structural iron smith shop 50x80 ft., and an engine and boiler room 25x50 ft.

Sauer & Hahn are preparing plans for a 5-story brick addition, 30x60 ft., to the factory of the Standard Hosiery Co., at 1310 North Lawrence St.

Dodge & Day, Nicetown, have awarded to FRANK B. GILBRETH, 34 West 26th St., New York, the contract for building a manufacturing plant for the S. L. Allen Co., at Fifth St. and Glenwood Ave. The plant will consist of a 5-story reinforced-concrete main building and a number of smaller buildings. The cost will be $140,000.

WILKES-BARRE, PA.—The contract for erection of the new mill of the Laurel Silk Mfg. Co., Dr. J. B. Tobias, Pres., has been awarded to HENRY BINZ, North Grant St., and the building is to be erected at once. The new structure will be one story high and 50x100 ft. Its construction will be of brick. The factory will be located at the corner of South Empire and Dana Sts., and a new switch will be run to the place from the tracks of the Central R. R. of New Jersey, at a point near the Stanton breaker.

SAYRE, PA.—Plans have been prepared for an addition 72x144 ft., to the plant of the Imperial Pneumatic Tool Co. This will provide 10,600 sq. ft. more of floor space and will accommodate 100 more men. It is expected to have the building completed by July 1. The machinery has been purchased and will be installed as soon as the building is ready.

PHILADELPHIA, PA.—Bids are asked by Ballinger & Perrot, Archs., 1200 Chestnut St., until April 13, for a factory to be erected at the corner of 36th and Wharton Sts., Philadelphia, for the Barrett Mfg. Co. The building will have a frontage of 124 ft. on 36th St. and 78 ft. on Wharton St., and be two stories in height.

BALTIMORE, MD.—J. M. Raffel & Co., paper-box manufacturers, 217 West German St., have awarded contract to McLAUGHLIN BROS., 100 East Lexington St., for construction of factory building at the corner of Greene and German Sts. The building will have five stories, will be 58x94.6 ft. brick, with stone trimmings, mill construction, slag roof, galvanized-iron cornice, electric wiring and fixtures, sanitary plumbing and steam-heating system. Cost, about $40,000.

Carl Speerer's Sons, carriage manufacturers, 400-404 South Fremont Ave., are reported to have awarded contract to MONMONIER & SORRELL, 308 Laurens St., for the construction of carriage factory 70x130 ft., at corner Carey and Herkimer Sts. Cost, $25,000.

HAGERSTOWN, MD.—The Brandt Cabinet Works will erect and equip buildings at a cost of $15,000 for manufacturing parlor tables from oak and birch wood; capacity, 25,000 annually. The main building will have three stories and basement, 40x125 ft. The engine-room will be 27x30 ft., and the drykiln, 18x80 ft. H. E. Brandt is proprietor.

SALISBURY, N. C.—The management of the Salisbury Cotton Mills is reported to have awarded contract to D. K. CECIL for erection of a 60x100 ft. brick addition. This company is operating 20,000 spindles and 592 looms.

WAKE FOREST, N. C.—The directors of the Royal Cotton Mills have awarded contract to WINNINGHAM & FRIES, of Greensboro, N. C., for erection of an addition that will double the size of present mill structure and permit an increase of spindles to 15,000. This company is at present operating 7,264 spindles on the production of sheetings and lace curtain yarns, and it is understood it intends adding to its spindleage as soon as the addition mentioned is completed.

LOWELL, N. C.—The Laurel Cotton Mills are planning to erect another mill, to be equipped with 12,000 spindles for manufacturing yarn Nos. 30 and 40.

LENOIR, N. C.—G. L. Barnhardt, G. W. F. Harper, J. H. Beall, J. L. Nelson and others have incorporated the Whitnell Cotton Mill Company at Lenoir, with a capital stock of $100,000. A modern plant will be erected, and from 5,000 to 6,000 spindles will be installed for manufacturing medium and fine yarns.

ENFIELD, N. C.—The Enfield Knitting Mills will rebuild plant recently burned. The main building will be 40x160 ft., with firewall in center; dyerooms 20x50 and 20x30 ft., engineroom 20x20 ft., boiler-room 20x20 ft. Each department will be cut off by automatic firedoors. The building, 1-story structure throughout, of brick and cement. Company will install 100 knitting machines for hosiery, capacity 400 dozen pairs daily. Capital stock, $30,000. Geo. T. Andrews is Pres.; Robert E. Shervette, Vice-Pres. and Supt.

LAGRANGE, GA.—Brownville Excelsior Works will establish an excelsior plant with a capacity of eight tons daily to manufacture all grades excelsior. The building will be two stories high, 30x160 ft. Cost of building and equipment, $16,000. A. H. Frazer is Engr. E. B. Reed is Mgr., with principal address Gabbittsville, Ga.

ATLANTA, GA.—Morgan & Dillon, Prudential Bldg., are preparing plans for improvements to be undertaken by the Georgia Railway & Electric Co. It is proposed to build addition to paint shop 50x110 ft. and to machine shop 66x98 ft., enlarge carpenter shop and build blacksmith shop, all the new construction to be entirely fireproof. Plans also include erection of new brick and steel car barn 102x22x258 ft. Plant, when completed, will manufacture about 50 cars a year. Thomas K. Glenn, Atlanta, is Gen. Mgr.

MERIDIAN, MISS.—It is reported that the New Orleans & Northeastern R. R. Co. has completed plans for construction of roundhouse to cost $100,000, to have 36 stalls for engines and to be equipped with a shop building containing modern appliances for repairing engines and machinery. J. F. Coleman, New Orleans, La., is Ch. Engr.

LOUISVILLE, KY.—The Stitzel Distilling Co. will enlarge and improve its distilling plant, doubling the capacity. It will also erect a 2-story brick warehouse with 22,500 sq. ft. of floor space at a cost of $90,000.

SIDNEY, OHIO.—Frank Aultenbach, 1328 Broadway, Sidney, has the contract for erecting an addition to factory building for Eclipse Folding Machine Co. The building is to be 1-story, 50x70 ft., of brick, with concrete foundation and composition roof.

BAY CITY, MICH.—The Richardson Lumber Co., of Alpena, Mich., has purchased 23 acres on the Shiawassee River, and will begin erection of a hardwood mill with a capacity of from 10,000,000 to 12,000,000 ft. per year. It will operate the plant continuously, giving employment to about 125 men and increasing this number to keep pace with the demands of business. Associated with the Richardson Lumber Co. in this enterprise is F. W. Gilchrist, of Alpena.

STREATOR, ILL.—The Crawford Car & Locomotive Works has completed plans for doubling the capacity of its plant. It will build a new wood-working shop, about 300x48 ft., blacksmith shop and machine shop. About $150,000 will be expended.

WATERTOWN, WIS.—F. L. Lindsay, Arch., is preparing plans for foundry and machine shops for Otto Biefield & Co. Brick and structural iron and steel work will be used for construction. Estimated cost, $20,000.

MILWAUKEE, WIS.—The Cream City Brewing Co. contemplates increasing its facilities by erecting a 5-story stock house and tanks at Sheridan Lane and 13th St. The improvement will cost $200,000.

OSHKOSH, WIS.—The Diamond Match Co., Trinity Bldg., New York, will erect an addition to its factory at Oshkosh. The improvements will cost $300,000 and will permit the increase of the working force to 800 persons.

The Oshkosh Bottle Wrapper Co. will erect a modern plant, doubling its capacity. It will be able to turn out 1,000,000 bottle wrappers a week in the new plant.

DULUTH, MINN.—Charles J. Furst, 172 Washington St., Chicago, Ill., has completed plans and will take figures on a plant to be built at Duluth, for the Clyde Iron Works. It will comprise a machine shop, 90x140 ft.; foundry, 90x180 ft.; blacksmith shop, 50x200 ft.; pattern shop, 90x90 ft.; tool shop, 50x80 ft., all one story, and 2-story warehouse, 70x90 ft. The buildings will be of mill construction, except the warehouse, which will be of steel skeleton construction.

The construction of a steel plant in Duluth, in which the U. S. Steel Corporation, 71 Broadway, New York, intends to manufacture steel rails, structural material and bars, has just been authorized by the corporation's finance committee. It is understood the cost will reach $10,000,000. This expenditure will be charged to the corporation's surplus. A site for the new plant has been selected, and work will be begun immediately.

KANSAS CITY, MO.—Harry Darby, owner of the Missouri Boiler Works, 504 West Fifth St., Kansas City, Mo., has purchased property at Third St. and Minnesota Ave., for a new boiler works plant. Work on the buildings will begin at once.

The Kansas City Galvanizing and Mfg. Co., 703 Dwight Bldg., was recently organized for the purpose of installing an electro-galvanizing plant in Kansas City. It proposes erecting a plant having a daily capacity of 30 tons. Plans for the same are now being prepared by A. B. Crozier, Consult. Mechanical Engr., 510 Kansas City Life Bldg.

HOUSTON, TEX.—A $50,000 company has been organized at Houston, Tex., and formal application has been made for a charter to erect an extensive steel and iron working plant. A site has been purchased and work on the buildings will be started at an early date. The plant will include structural steel fabricating shops, forge works, templet shops, warehouse and shipping sheds. These buildings will all be of steel frame, ironclad and fireproof. They will be equipped with electric motive power, electric traveling cranes and all modern steel and iron working machinery. H. E. Eirod will be Gen. Mgr.

WENATCHEE, WASH.—The Beal Grain & Milling Co. will begin work in 30 days on constructing a flouring mill to have a capacity of 250 bbls. a day. The mill and warehouse will cover a ground space of 114x144 ft. The company is capitalized at $250,000. D. A. Beal is Pres. and Mgr.

RENTON, WASH.—The Seattle Car Mfg. Co., Humphrey Station, Seattle, has purchased 155 acres here and will spend $250,000 in the installation of a complete plant for the manufacture of freight and passenger cars. The plant will consist of the following buildings: Foundry, 75x80 ft.; blacksmith shop, 75x80; machine shop, 200x175; erecting shop, 100x250; wood shop, 75x175; office, 50x60; power house, 50x60; storage building, 40x80; paint room, 100x100. The office alone will be constructed of brick, the others being frame. The plant is to be completed in 90 days and will employ 200 men. T. G. Haywood is Mgr., Seattle.

WELLAND, ONT.—Work on the erection of a 1-story brick factory, 150x60 ft., for the Robertson Machinery Co. will commence the latter part of the month.

PORT COLBORNE, ONT.—The contract for installing the machinery in the new 2,000,000-bushel elevator being erected by the Dominion Government, has been awarded to GOLDIE & McCULLOCH CO., 325 St. James St., Montreal, Que.

SASKATOON, SASK.—The [illegible] ing & Elevator Co. is having [illegible] for a 500-bbl. flour mill, to
SNYDER BROS., Regina, [illegible] awarded contract for the [illegible] brewery here, to cost $100,000.

FERNIE, B. C.—The Elk [illegible] decided to spend $100,000 this [illegible] ing a new mill at Summit [illegible]

VANCOUVER, B. C.—J. L[illegible] erect a 6-story fireproof boot [illegible] tory at the corner of Cambie [illegible]

VICTORIA, B. C.—George [illegible] 4205 14th St., N. E., B. W. [illegible] S. Greene, Washington Bldg., [illegible] will erect a wood products [illegible] cost of $100,000.

MISCELLANEOUS CONTRACTS.

U. S. RECLAMATION SERVI[illegible] relative to canal projects, etc., [illegible] under Water Supply—Irrigation

GREEN HOUSES.—Toronto, [illegible] have been prepared for erection [illegible] houses at Exhibition Park.

BULKHEAD.—Perth Amboy, [illegible] ars asked by Wm. H. Fuller[illegible] until 8.30 p. m., April 15, for [illegible] pile and timber bulkhead on Fr[illegible]

POST FENCE.—Prescott, Ar[illegible] asked by Capt. Chas. C. Wa[illegible] construction of post fence, [illegible] racks, Ariz. (Advertised, Engin[illegible]

COAL PIER.—Sewells Point, [illegible] for construction of superstructure [illegible] for the Tidewater Ry. Co. has be[illegible] McCLINTIC-MARSHALL CO., [illegible] Pa. Cost, $500,000.

BRIDGE TERMINAL.—New York, N. Y.—Bids are asked until 2 p. m., April 18, by James W. Stevenson, Comr. of Bridges, for construction of the temporary terminal of the Brooklyn Bridge.

SMELTER.—Calumet, Mich.—The Algoma Custom Smelting & Refining Co., Ltd., of this city, has let contract to JOHN KIRBY, of Pittsburg, Pa. for construction of a smelter for company at Thessalon, Ont.

WHARF, DREDGING.—Fort Hunt, Va.—Bids are asked by the Construction Quartermaster until noon, May 1, for the construction of a timber wharf, wharfhouse and dredging a channel at Fort Hunt, Va.

GRANDSTAND.—Madison, Wis.—Claude & Starck, Archs., Badger Block, City, are preparing plans for a frame grandstand, 50 x 125 ft., for the Madison Baseball Team, to be erected at Madison Baseball grounds.

BREAKWATER.—Newport, R. I.—Bids are asked until 11 a. m., May 1, by Lieut.-Col. J. H. Ward, Corps Engrs., U. S. A., for constructing a breakwater at Point Judith, R. I. (Advertised, Engineering News.)

EXCAVATION.—Boston, Mass.—Bids are asked until noon, May 8, by Maj. Edward Burr, Corps Engrs., U. S. A., for about 15,000 cu. yds. rock excavation in Boston Harbor. (Advertised, Engineering News.)

DREDGING.—North Bend, Ore.—Contract will be let soon for dredging work in connection with deep channel in Pony Inlet, Coos Bay, Ore. L. J. Simpson, Mayor of North Bend, is interested. Cost may be $10,000.

DITCHES.—Algona, Iowa.—A. J. Lilly, Drainage Engr., states that new bids will be received on April 16 for constructing ditches and drains in Drainage Dist. No. 5. Bids will also be received at the same time for Dists. 6 and 7.

SWIMMING POOL.—Indianapolis, Ind.—Bids have been received by the White City Amusement Co., of Indianapolis, for a concrete swimming pool at the White City. Estimated cost, $50,000. R. C. Light, Broad Ripple, Ind., is Design. Engr.

TUNNEL ENTRANCE.—Boston, Mass.—Bids are asked until noon, April 29, by the Boston Transit Commission, B. Leighton Beal, Secy., for constructing a Washington St. tunnel entrance and exit at Temple Place. (Advertised, Engineering News.)

LIGHT-HOUSE.—New York, N. Y.—Bids are asked until 1 p. m., April 22, by Maj. Chas. L. Potter, Corps Engrs., U. S. A., Engr. Third Light-House District, Tompkinsville, N. Y., for raising West Bank Light-House, Lower Bay, New York.

DUMP AND FILL IN.—New York, N. Y.—Bids are asked until noon, April 11, by John A. Bensel, Commissioner of Docks, for the right to dump and fill in behind the bulkhead wall recently built at the 39th St. Ferry terminal, Boro. of Brooklyn.

DREDGING.—Tampa, Fla.—Bids are asked by the Bayshore Realty Co., American National Bank Bldg., Tampa, until April 30 for dredging in Hillsborough Bay in front of company's property. Eugene Holtsinger, Treas. (Advertised, Engineering News.)

STEEL REINFORCEMENT.—Huntley, Mont.—Bids are asked by the U. S. Reclamation Service until 2 p. m., April 24, for furnishing about 900,000 lbs. of steel for reinforcement of concrete. J. R. Garfield, Secy. Dept. Interior. (Advertised, Engineering News.)

DREDGING.—New York, N. Y.—Bids are asked until noon, April 19, by J. A. Bensel, Commissioner of Docks, for dredging about 150,000 cu. yds. on the East and Harlem rivers, Boroughs of Manhattan, Brooklyn, Queens and the Bronx, and in the Boro. of Richmond.

DREDGING.—Detroit, Mich.—Bids were received as follows on March 28, by Maj. Charles Keller, Corps. Engrs., U. S. A., for dredging mouth of Black River, Mich.: the Muir-O'Sullivan Dredge & Dock Co., Port Huron, Mich., 15.5 cts. a cu. yd.; James Davidson, Bay City, Mich., 25 cts.

WIRELESS SETS, GENERATING SETS.—New York, N. Y.—Bids are asked until 10 a. m., May 7, by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., for furnishing two sets wireless telegraph apparatus and two duplicate gas engine generating sets for the New York Navy Yard. E. B. Rogers, Paymaster Gen., U. S. N.

CEMENT. Edmonton, Alta.—The Commissioners have awarded contract for the supply of 50 bbls., more or less, of Portland cement, delivery to commence June 1, to TORMAN, LANCEY & GRINDLEY. They are to supply the "Buffalo" brand at $3.40 a bbl. F. C. Crosskill, Secy.-Treas.

QUAY WALL.—Charleston, S. C.—The Bureau of Yards and Docks, Navy Dept., Washington, has awarded to the NEW YORK CONTINENTAL JEWELL FILTRATION CO., 25 Wall St., New York, contract for the construction of a quay wall at the Charleston Navy Yard, at its bid of $114,-330.

TREE GUARDS, PIPE FENCE.—New York, N. Y.—Bids are asked until 3 p. m., April 18, by the Department of Parks for erecting tree guards and for furnishing and erecting steel rail pipe fence with wire mesh facing around tree plots in Cathedral Parkway, between Fifth Ave. and Riverside Drive, Boro. of Manhattan.

TUNNEL.—Boston, Mass.—Bids were received by the Boston Transit Commission, Bion Leighton Neal Secy., on April 4 for constructing Section 6 of the Washington St. tunnel, near the old state house. The structure will be mainly of steel and concrete. Contract was awarded to PATRICK McGOVERN, 6 Beacon St., Boston, at $187,335.

REPAIRING PIER.—Grand Rapids, Mich.—Bids were received on April 4 by Col. M. B. Adams, U. S. Engrs., for repair of South Pier at Muskegon, Mich. The bidders were Burk, Smith & Nelson, Muskegon, $15,886; Nelson J. Gaylord, Ludington, Mich., $15,-883; Bennett-Schnorbach Co., Muskegon, $19,983; Robert Love, Muskegon, $17,066.

CRIBS, PIERS, ETC.—Milwaukee, Wis.—Bids are asked until 2 p. m., April 29, for moving cribs, building crib breakwater, removing old pier and building pile pier at Manitowoc Harbor, Wis.; building crib breakwater at Sheboygan Harbor, Wis., and constructing concrete superstructure and crib breakwater at Milwaukee Harbor, Wis. Maj. W. V. Judson, Corps Engrs., U. S. A. (Advertised, Engineering News.)

TUG.—Washington, D. C.—Bids were opened April 4, at the office of the Revenue Cutter Service, Treasury Department, Washington, for the construction of an ocean-going tug for North Pacific Ocean. The bids received were: Pusey & Jones Co., Wilmington, Del., $189,057; omitting electric light plant, deduct, $6,250; time, July 1, 1908. Maryland Steel Co., Sparrows Point, Md., $226,200; omitting electric light plant, deduct, $6,000; date of completion, May 4, 1908.

FILE CASES.—New York.—Bids were opened April 4, at the office of the Supervising Architect of the Treasury, Washington, D. C., for installing steel file cases at the New York custom-house. Bids were: Library Bureau, New York, Section A, $55,-500; B, $13,975; C, $28,200; total, $84,900; time, eight months. General Fireproofing Co., Youngstown, Ohio, A, $44,700; B, $10,300; C, $26,400; total, $81,000; time, 200 days. Van Dorn Iron Works Co., Cleveland, Ohio, A, $46,500; B, $14,350; C, $18,600; total, $77,050; time, 90 days.

SHIP CHANNEL.—Morgan City, Ia.—The Atchafalaya Bay Ship Channel Co. is now inviting bids for dredging a 14-ft. channel 11½ miles long. Contract for this work will be let in connection with its plans for providing a ship channel connecting southwest Louisiana with the Mississippi River by means of locks at Plaquemine. The company has an authorized capital stock of $250,000. F. B. Williams, Pres., and E. A. Pharr, Vice-Pres. and Gen. Mgr., Morgan City. Warren B. Reed, Hibernia Bank Bldg., New Orleans, is the Consulting Engr. in Charge.

LEVEE.—Memphis, Tenn.—Bids are asked by the St. Francis Levee Board of Arkansas until noon, April 24, for the construction of approximately 2,000,000 cu. yds. of levee work. Proposals will be received for the work in sections containing about 100,000 cu. yds. Bidders are invited to bid on any and all sections. If any bidder proposes to construct more than one section, he will state the total cubic yards he is prepared to accept. If he be the lowest and best bidder, such sections will be awarded him within the amount stated as may be most advantageous to the levee district. Preference will be given contractors who have available forces ready to begin work immediately and with best prospects of completing same on contract time. Bids will be received to complete work by Feb. 1, 1908. Payments will be made monthly in cash. W. B. Miller, Pres.; H. N. Pharr, Ch. Engr., Randolph Bldg., Memphis.

DITCH.—Albert Lea, Minn.—Bids were received April 4 by C. E. Brainerd, County Audr., for construction of main ditch and laterals of Judicial Ditch No. 1. This work comprises 17.7 miles of main ditch and 15.3 miles of lateral ditches. Estimated excavation, 1,739,779 cu. yds. Estimated cost, $162,364; with masonry and dam, $164,614. The bids were as follows: G. A. McWilliams, Walnut, Ill., $110,128; The France Dredging & Construction Co., Mansfield, Ohio, $114,134; N. C. McGinnis, Bement, Ill., $115,679; Jno. A. Brumbaugh, Elkhart, Ind., $155,712; R. A. Brown & Co., Vincennes, Ind., $163,541; The Harding Dredge Co., Vincennes, Ind., $160,071; Horton & Mosely, Monon, Ind., $148,089; J. R. Johnson, Lake Minnetonka, Minn., $119,611; G. H. Sternberg & Sons, South Bend., Ind., $116,279. Partial bids, as follows: Timothy Foohey Dredging Co., Ft. Wayne, Ind., three laterals, $5,656; Standard Drainage Co., Windom, Minn., two laterals, $14,455. Whole contract awarded to the FRANCE DREDGING & CONSTRUCTION CO. J. W. Dappert is Engr., Taylorville, Ill. F. H. Fisk, Albert Lea, is Asst. Engr.

U. S. POSSESSIONS AND CUBA.

STEEL AND PIPE.—Panama.—David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, has awarded to the UNITED STATES STEEL PRODUCTS EXPORT CO., 24 State St., New York, contracts for furnishing a large quantity of steel angle bars at $22,464, and 160,000 ft. extra heavy black iron pipe at $48,440, under Circular 356, bids opened April 2.

ENGINEERING SUPPLIES. — Panama.—Bids are asked until 10.30 a. m., April 19, by David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., under Circular 359, for a quantity of engineering supplies, as follows: 817,000 lbs. saltpetre dynamite; 45% nitro-glycerine and 350,000 lbs. same, 60% nitro-glycerine; 60,000 detonators; 280,000 triple tape fuse; 96,000 electric exploders; 12,000 caps; 15,000 bbls. Portland cement; 35,000 ft. porous drain tile; 300 tons Connellsville coke; wagonettes; frogs, switches and switch-stands; 500 cast-iron car wheels; shafting and drop hangers; pulleys; Tobin bronze, Babbitt metal, copper, spelter and steel; galvanized-iron cable; cast-steel rope and galvanized-iron wire; 7,800 ft. steam hose, 2,500 ft. air hose, nozzles, packing; steam pressure recorders; drafting machines; 417 dozen shovels, hatchets, mattocks, etc.; twist drills, screw jacks, counter scales, Manila rope, and a large quantity of small hardware.

ROCK CRUSHER PLANT.—Panama.—Bids are asked until 10.30 a. m., April 19, by David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., under Circular 359, for a rock crusher plant at Porto Bello, C. Z. The plant will consist of two large crushers and six smaller ones, provided with screens of standard type, shafting and driving machinery, rope drives, belting, pulleys, conveyor. An engine is also called for, tandem, compound, self-contained, condensing, high-speed, of ample power to operate the crushers, screen and elevator. The Commission may contract for the crushers and the engine together or separately. The plant will be situated on a side hill and is designed to crush a trap rock weighing about 163 lbs. of the cu. ft., to a maximum size which will pass through a 2½-in. ring. Rock will be delivered to the large crushers in dump cars from the quarry. The delivery from the large crusher will be into a revolving screen with 4-in. holes; material passing through the screen will go directly into the main delivery chute. Rejections from the screen will be chuted to any one or all of the small crushers, normally to the three in line with the larger crusher. The discharge from the small crushers will pass into the main delivery chute, thence into an elevating conveyor and to the bins.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

SIDEWALKS, WATER MAINS, PIPE, SEWERS, ETC.—Salt Lake City, Utah.—Bids were received by the Board of Public Works on March 16 for constructing cement sidewalks for 1907; cement sidewalk extension No. 108; stone block crosswalks; water mains for 1907; pipe sewers for 1907, and new water supply mains. The bidders were: (A)S. Birch, Salt Lake City; (B) R. S. Bloom Co., Chicago, Ill.; (C) Johnson & Beacom, Missoula, Mont.; (D) P. J. Moran, Salt Lake City; (E) Custer & Burt, Salt Lake City; (F) Palm & Nelson, Salt Lake City; (G) J. W. Percival, Salt Lake City; (H) Hanley & Ritchie, Salt Lake City; (I) Midgley Bros., Salt Lake City; (J) James Kennedy, Salt Lake City. Louis C. Kelsey is City Engr. The bids in detail were as follows:

For constructing cement sidewalks for the year 1907:

Grading:	(A)*	(B)
30,000 cu. yds. excavation	$0.50	$0.60
12,000 cu. yds. embankment	.35	.45
Cement pavement:		
500,000 sq. ft. 4" thick	.128	.129
30,000 sq. ft. 6" thick	.180	.175
20,000 ft. B. M., furnishing and setting flumes	45.00	40.00
Furnishing and laying vitrified pipe:		
1,000 lin. ft. 4"	.38	.20
400 lin. ft. 6"	.48	.30
200 lin. ft. 8"	.58	.45
12,000 lin. ft. furnishing and setting driveway guard timbers	.12	.075
Removing trees:		
50 6" or less in diam.	1.00	1.00
50 more than 6" and less than 1' in diam.	2.00	2.00
150 1' and over in diam.	4.50	4.50
Total	$92,453	$101,085

*Awarded contract.

Repairing paved streets:

Grading:	(D)*
500 cu. yds. excavation	$0.80
350 cu. yds. concrete foundation	9.35
3,500 sq. yds., repairing asphalt street pavement exclusive of foundation.	1.87
250 sq. yds., relaying stone block street pavement, grouted	1.80
250 sq. yds., relaying stone block street pavement, not grouted	1.95
Total	$11,135

*Awarded contract.

Construction of stone block crosswalks:

Grading:	(E)*	(F)
1,500 cu. yds. excavation	$0.40	$0.60
Constructing crosswalks:		
2,500 sq. yds. flagstone and stone block including sand foundation and haul of one mile or less	.60	.65
2,000 sq. yds. macadam	.72	.72
1,000 sq. yds., hauling stone blocks each additional mile or fraction thereof	.10	.075
Total	$3,640	$4,040

*Awarded contract.

Constructing cement sidewalk extension No. 108:

Grading:	(A)	(B)	(C)
178,000 cu. yds. excavation	$0.50	$0.50	$0.44
84,000 cu. yds. embankment	.35	.50	.33
Cement pavement:			
1,057,000 sq. ft. 4"	.128	.138	.126
61,000 sq. ft. 6"	.18	.175	.17
68,000 ft. B. M., furnishing and setting flumes	45.00	40.00	43.00
Furnishing and laying vitrified pipe:			
3,000 lin. ft. 4"	.38	.20	.38
1,000 lin. ft. 6"	.48	.30	.48
500 lin. ft. 8"	.58	.45	.58
31,000 lin. ft., driveway guard timbers, furnishing & setting	.12	.075	.12
Removing trees:			
350 6" or less in diameter	1.00	1.00	1.00
370 more than 6" and less than 1' in diameter	2.00	2.00	2.00
700 1' and over in diameter	4.50	4.00	4.00
Total	$277,646	$290,008	$262,036

Construction of water mains for 1907:	(D)	(H)	(I)	(G)	(J)
35,000 cu. yds. excavating and back filling	$0.70	$0.75	$0.67	$0.56	$0.80
56,000 lin. ft. 6" cast-iron pipe	1.21	1.26	1.28	1.17	1.29
6,000 lin. ft. 8" cast-iron pipe	1.75	1.75	1.81	1.67	1.80
800 lin. ft. 10" cast-iron pipe	2.45	2.40	2.60	2.27	2.40
800 lin. ft. 12" cast-iron pipe	3.12	3.10	2.95	2.86	3.20
60,000 lbs. special casting	.05½	.05	.06	.05¾	.06
280 6" valves	19.20	19.50	19.90	18.50	20.00
15 8" valves	27.00	28.50	29.00	26.00	29.00
2 10" valves	39.90	40.00	42.50	37.00	38.00
2 12" valves	50.20	51.00	51.75	46.00	52.00
130 hydrants	55.50	58.50	56.80	47.50	58.00
250 iron valve boxes	6.00	6.50	7.25	5.75	6.00
50 brick valve boxes	34.65	36.25	37.00	39.00	35.00
30 brick hydrant boxes	63.30	37.75	66.00	50.00	62.00
200 sq. yds. cement plaster	.50	.60	.60	.50	.50
Total	$129,143	$132,814	$133,372	$119,592	$138,295

Construction of pipe sewers for the year 1907:	(D)	(J)*	(H)
Excavating and backfilling:			
35,000 cu. yds. dry work	$0.87	$0.90	$0.98
95,000 cu. yds. wet work	1.40	1.33	1.35
Furnishing and laying vitrified pipe:			
122,000 lin. ft. 8"	.40	.44	.50
24,000 lin. ft. 10"	.60	.55	.57
7,200 lin. ft. 12"	.69	.64	.62
3,200 lin. ft. 15"	.97	.85	.88
1,200 lin. ft. 18"	1.53	1.35	1.40
1,500 lin. ft. 21"	1.85	1.90	1.97
1,600 lin. ft. 24"	2.60	2.50	2.65
100 manholes, 10' or less in depth	67.00	60.00	65.00
100 manholes, additional depth of over 10'	5.25	5.00	4.00
125 flush-tanks 10' or less in depth	175.00	140.00	135.00
10 flush-tanks, additional depth of over 10'	11.00	8.00	10.00
200 sq. yds. cement plaster	.55	.60	.75
Total	$300,233	$282,728	$296,910

*Awarded contract.

Constructing new water supply mains (continuous wooden stave pipe):

	(H)	(I)	(D)*
25,000 cu. yds. excavating and backfilling	$0.80	$0.75	$0.70
Cast iron pipe:			
300 lin. ft. 6", Class "E"	1.20	1.25	1.26
50 lin. ft. 8", Class "E"	1.86	1.85	1.84
50 lin. ft. 10", Class "E"	2.75	2.70	2.55
792 lin. ft. 12", Class "E"	3.35	3.40	3.25
50 lin. ft. 16", Class "E"	4.83	4.85	4.94
793 lin. ft. 18", Class "E"	5.90	5.83	5.85
793 lin. ft. 24", Class "E"	9.00	9.10	8.97
808 lin. ft. 30", Class "E"	13.55	13.90	12.85
Continuous wooden stave pipe:			
797 lin. ft., 30"—1⅝" staves	7.85	7.90	6.50
6,235 lin. ft., 30"—2¼" staves	8.20	8.30	7.00
1,835 lin. ft., 36"—1⅝" staves	7.65	7.75	6.10
2,672 lin. ft., 36"—2¼" staves	8.25	8.30	6.67
130 cu. yds. concrete masonry	18.00	23.00	20.00
500 sq. yds. cement plaster	.60	.55	.38
4,000 lbs. setting reinforcement	.05	.03½	.04
50,000 lbs. special castings	.06¾	.06½	.06¼
Relaying cast-iron pipe:			
1,584 lin. ft. 12"	1.00	1.25	1.21
3,300 lin. ft. 16"	1.70	1.75	1.80
1,000 lbs. special castings, resetting	.04	.05	.04
20 hydrants	57.00	58.00	55.50
20 6" valves	21.00	20.00	19.20
1 8" valve	28.50	29.00	27.60
1 10" valve	39.00	38.00	39.90
4 12" valves	50.00	52.00	50.20
4 16" valves	193.00	221.00	236.10
1 18" valve	322.00	330.00	301.75
5 24" valves	412.00	426.00	409.40
1 30" valve	585.00	590.00	594.00
1 36" sluice valve	375.00	350.00	356.25
2 24" pressure regulators	1,525.00	1,490.00	1,500.00
2 4" air valves	41.00	43.00	40.00
5 iron valve boxes	7.00	6.00	6.60
6 brick valve boxes	37.00	35.75	36.10
10 brick hydrant boxes	68.00	69.00	63.30
Total	$164,768	$165,635	$145,991

*Awarded contract.

Constructing new water supply mains (cast-iron pipe):

	(H)	(I)	(D)*
25,000 cu. yds. excavating and backfilling	$0.80	$0.75	$0.70
Cast-iron pipe:			
300 lin. ft. 6", Class "E"	1.20	1.25	1.26
50 lin. ft. 8", Class "E"	1.86	1.85	1.84
50 lin. ft. 10", Class "E"	2.75	2.70	2.55
792 lin. ft. 12", Clas "E"	3.35	3.40	3.25
50 lin. ft. 16", Class "E"	4.83	4.85	4.94
793 lin. ft. 18", Class "E"	5.90	5.83	5.85
793 lin. ft. 24", Class "E"	9.00	9.10	8.97
7,930 lin. ft. 30", Class "E"	13.55	13.90	12.85
1,835 lin. ft. 36", Class "E"	17.10	17.15	16.80
2,672 lin. ft. 36", Class "D"	16.45	16.30	15.72
130 cu. yds. concrete masonry	18.00	23.00	20.00
500 sq. yds. cement plaster	.60	.55	.38
4,000 lbs. setting reinforcement	.05	.03½	.04
50,000 lbs. special castings	.06¾	.06½	.06¼
Relaying cast-iron pipe:			
1,584 lin. ft. 12"	1.00	1.25	1.21
3,300 lin. ft. 16"	1.70	1.75	1.80
1,000 lbs. special castings, resetting	.04	.05	.04
20 hydrants	57.00	58.00	55.50
20 6" valves	21.00	20.00	19.20
1 8" valve	28.50	29.00	27.60
1 10" valve	39.00	38.00	39.90
4 12" valves	50.00	52.00	50.20
4 16" valves	193.00	221.00	236.10
1 18" valve	322.00	330.00	301.75
5 24" valves	412.00	426.00	409.40
1 30" valve	585.00	590.00	594.00
1 36" sluice valve	375.00	350.00	356.25
2 24" pressure regulators	1,525.00	1,490.00	1,500.00
2 4" air valves	41.00	43.00	40.00
5 iron valve boxes	7.00	6.00	6.60
6 brick valve boxes	37.00	35.75	36.10
10 brick hydrant boxes	68.00	69.00	63.30
Total	$241,545	$243,958	$231,343

*Awarded contract.

*SEWAGE DISPOSAL WORKS.—Waterbury, Conn.—Bids were received as follows by the Board Public Works on April 2 for constructing Section 3, Main Carrier, Sewage Disposal Works. R. A. Cairns, City Engr. The bidders were: (A) Long & Little, Leominster, Mass.; (B) Besch & Beebe, Utica, N. Y.; (C) F. T. Ley & Co., Springfield, Mass.:

	A.	B.	C.
15,000 cu. yds. earth excavation	$0.85	$1.31	$1.60
2,500 cu. yds. rock excavation	3.00	3.50	3.50
40 cu. yds brick masonry	18.00	20.00	24.00
800 cu. yds. concrete masonry, Class A	11.00	12.00	10.50
2,000 cu. yds concrete masonry, Class B	10.00	11.00	15.50
100 cu. yds. concrete masonry, Class C	9.00	8.00	10.00
25 cu. yds. split stone masonry	15.00	25.00	14.00
12 cu. yds. ashlar masonry	28.00	25.00	20.00
30 sq. yds. granolithic floor	1.00	1.00	.70
200 cu. yds. slope paving	2.50	2.50	5.00
250 sq. yds. riprap	.65	2.00	.90
Lump sum setting sluice gates	175.00	70.00	200.00
28 tons cast iron pipe, 4-in.	55.00	40.00	45.00
1 ton cast iron pipe, specials	90.00	140.00	75.00
2,800 lin. ft. terra cotta 2-duct conduit	.60	.20	.60
Totals—A, $55,558; B, $65,445; C, $79,161.			

CIVIL SERVICE EXAMINATIONS.

ENGINEER, DRAFTSMEN, ETC.—Albany, N. Y.—The State Civil Service Commission will hold examinations April 27 for the following civil engineering positions: Assistant Civil Engineer, $5 to $6 a day; Bridge Designer, $1,500 to $2,100; Civil Engineering Draftsman, $4 to $5 a day; Inspector of Masonry; Junior Bridge Draftsman, $900 to $1,200; Leveler, $4.50 to $5 a day; Rodman, $3.50 to $4 a day. The last day for filing applications for these positions is April 20. Full information and application forms may be obtained by addressing Charles S. Fowler, Ch. Examiner. (Advertised, Engineering News.)

MECHANICAL DRAFTSMAN.—New York, N. Y.—Notice is given by the Municipal Civil Service Commission that the time for receiving applications for the position of Mechanical Draftsman has been extended until 4 p. m., April 11. The dates of the examination have been fixed as follows: Heating and ventilating, April 23; electrical, April 25; sanitary, April 26. The precentage required is 75 on the technical paper and 70 on all. There are no vacancies at present. Salary: heating and ventilating, $1,500 to $1,800 per annum; electrical and sanitary, $1,200 to $1,600 per annum. The minimum age is 21 years. Frank H. Spencer, Secy.

INDUSTRIAL NOTES.

THE GOUBERT MFG. CO., New York, has removed its offices from 85 Liberty St. to 90 West St.

THE STROUDSBURG ENGINE WORKS, Stroudsburg, Pa., has opened a sales department at No. 426 Perry Bldg., Philadelphia, Pa.

AMERICAN HOIST & DERRICK CO., of St. Paul, Minn., announce the opening of a branch office in the Wabash Bldg., Pittsburg, Pa.

THE ARTHUR KOPPEL CO. advises us that its San Francisco representatives have moved from their temporary office, 515 Market St., to new permanent offices at 1500-10-11 Chronicle Bldg., San Francisco, Cal.

MINNEAPOLIS STEEL & MACHINERY CO. informs us that the increasing trade of its Mechanical Department has made it imperative to add another large building of steel and brick construction to the already large plant. Recently this company was obliged to double the capacity of its foundry. When the new buildings are completed, they will have a total of over 12 acres of floor space within a yard area of over 20 acres. In the short period of a year, since this company secured the right from Germany to build the Muenzel Gas Engine and Suction Gas Producer, over thirty plants have been installed, and orders are in the shops for a great many more.

THE CROCKER-WHEELER CO., whose main office and works are at Ampere, N. J., has found it impossible to handle its rapidly increasing business in electric motors and generators in Birmingham, Ala., from its New Orleans and Baltimore offices, and has been obliged to establish headquarters in Birmingham. The company's celebrated rolling mill motors, the only line of motors ever built especially for this arduous service is the C-W specialty, which has made the greatest impression in Birmingham. The new office, which is in the Woodward Bldg., Birmingham, is in charge of Mr. B. A. Schroder, who hitherto has taken care of the New Orleans territory of the company.

For other Proposal Advertisements see pages 55, 56, 57, 58, of Advertisements and Construction News page 138.

PAVING.

Watertown, N. Y.

Sealed proposals will be received by the Board of Public Works at the office of the City Engineer in the City Hall, Watertown, N. Y., until 5 P. M., April 24th, 1907, for the construction of about 4,500 sq. yds. of pavement in Mill street from the northerly track of the New York Central and Hudson River Railroad Company on Mill street to the northerly margin of Main street, together with the necessary curbing, grading, culverts, catch basins, and such other work and materials as may be necessary for the proper completion of the pavement. Bids will be received for each of the following kinds of pavement:

Medina block pavement on concrete base.

Vitrified paving block on concrete base.

Bitulithic pavement on bituminous base with trap rock surface.

Samples of the materials to be used in the different kinds of pavements must be deposited with the City Engineer at or before the time of making the bid.

Plans and specifications for each of the above kinds of pavements are open to public inspection and may be seen at the office of the City Engineer at the City Hall, from whom blank proposals can be obtained.

The Board of Public Works reserves the right to reject any and all bids received.

A certified check for One thousand dollars, payable to the order of the City Treasurer, Watertown, N. Y., must accompany each bid.

BOARD OF PUBLIC WORKS.
HENRY E. BAKER,
City Engineer.

April 6, 1907. 15-1t

BRIDGE.

Woonsocket, R. I.

Proposals will be received by Stephen Magown, Chairman of Committee on Streets and Bridges, until four (4) o'clock P. M., Friday, April 26, 1907, for building an Iron or Steel Bridge or a Concrete and Steel Bridge in Arnold Street and over N. Y., N. H. & H. R. R. Co.'s tracks, Woonsocket, R. I.

A certified check for five hundred ($500) dollars must accompany bid.

Plans and specifications and form of proposal may be obtained at the office of the City Engineer.

The right is hereby reserved to reject any or all bids as the interest of the City may appear.

STEPHEN MAGOWN, Chairman;
CHARLES E. ANDREWS,
JAMES MULLEN,
Committee on Streets and Bridges.
FRANK H. MILLS,
City Engineer. 15-1t

BRIDGE.

Watertown, Mass.

Sealed proposals for building the Galen Street Bridge and Wing Walls, at Charles River, Watertown, in accordance with the forms contained herein, will be received at the office of the Town Clerk, Town Hall, Watertown, until 8 o'clock P. M. of the 26th day of April, 1907, at which time and place the proposals will be publicly opened and read.

All proposals must be made upon the blank form herein contained.

Each proposal must be enclosed in a sealed envelope, endersed "Proposal for Galen Street Bridge and Wing Walls."

Each bid must be accompanied by a properly certified check for the sum of one thousand ($1,000) dollars, payable to the order of the Treasurer of the town of Watertown.

A bond will be required of not less than one-fourth, nor more than one-half, of the amount of the contract, for the faithful performance of the work.

Plans may be seen at the office of the Engineer of the Town, Town Hall, Watertown, on and after April 12, 1907.

The right is reserved by the Committee to reject any and all proposals as may be deemed best for the interest of the Town.

JAMES H. L. COON,
Chairman of Committee on
Galen Street Widening.
WILBUR F. LEARNED, Engineer.
Watertown, April 6, 1907. 15-2t

PAVING.

Lincoln, Ill.

Sealed proposals addressed to E. G. King, President Board of Local Improvements, Lincoln, Illinois, accompanied by certified checks, in amounts equal to ten (10) per cent. of the aggregate bid for each improvement, will be received up to 2 o'clock p. m., Monday, April 15, 1907, for the following improvements, to wit:

1. For a brick block pavement 30 feet wide between curb lines, with 5 inch Portland cement gravel concrete foundation. Portland cement gravel concrete combined curb and gutter; asphaltic filler between brick joints; including grading, connections to sewer. Length of improvement 1,667 feet; excavation 1,840 cu. yds.; sq. yds. brick block pavement, 4,886; 3,200 lin. ft. combined curb and gutter.

2. For brick block pavements 27 ft., 30 ft. and 27 ft. wide between curb lines, respectively; on 5 inch Portland cement gravel concrete base; Portland cement gravel concrete combined curb and gutter; asphaltic filler between brick joints; including grading, connection to sewer, and other necessary accessories; total grading, 1,882 cu. yds.; total brick block paving, 3,357 sq. yds.; total curb and gutter, 2,222 lin. ft. Total length 1,142.5 feet.

3. For sheet asphalt pavement on 4 inch Portland cement gravel concrete foundation; Portland cement gravel concrete combined curb and gutter; paving 27 feet between curb lines, 23 2-3 feet between gutter flags; 1½ inches binder course; 1½ sheet asphalt surfacing; including grading, accessories, etc. 1,904 cu. yds. Grading; 6,375 sq. yds. paving; 4,240 lin. ft. curb and gutter; length of improvement 2,133 ft.

The plans and specifications may be seen at the office of the City Clerk, or at office of J. G. Melluish, Civil Engineer, 222 Unity Bldg., Bloomington, Illinois, and proposal blanks can be secured from him or from the City Clerk. The Board reserves the right to reject any or every bid, or to accept any bid should it be for the interest of the City of Lincoln so to do.

E. G. KING,
President Bd. Local Improvements.
JAS C. GREENSLATE, Clerk,
Lincoln, Illinois. 15-1t

PAVING.

Watertown, N. Y.

Sealed proposals will be received by the Board of Public Works at the office of the City Engineer, in the City Hall, Watertown, N. Y., until 5 P. M., April 24, 1907, for the construction of about 2,500 sq. yds. of pavement in Pearl Street, between the northerly margin of Moulton and Water Streets and the northerly margin of Main and Vincent Streets, together with the necessary curbing, grading, culverts, catch-basins, and such other work and materials as may be necessary for the proper completion of the pavement. Bids will be received for each of the following kinds of pavement:

With Medina block pavement on concrete base.

With vitrified paving block on concrete base.

Samples of the materials to be used in the different kinds of pavements must be deposited with the City Engineer at or before the time of making the bid.

Plans and specifications for each of the above kinds of pavements are open to public inspection and may be seen at the office of the City Engineer at the City Hall, from whom blank proposals can be obtained.

The Board of Public Works reserves the right to reject any and all bids received.

A certified check for five hundred dollars, payable to the order of the City Treasurer, Watertown, N. Y., must accompany each bid.

BOARD OF PUBLIC WORKS,
HENRY E. BAKER,
City Engineer.
April 5, 1907. 15-1t

REPAIRING RESERVOIR.

Bridgeton, N. J.

Sealed proposals for repairs to Reservoir at Bridgeton, New Jersey, will be received at City Hall, Bridgeton, up to 12.30 P. M., April 23, 1907.

The work will include taking down two upper courses of Steel Tank 100 feet in diameter; lowering roof trusses; furnishing and placing about 110,000 lbs. of Steel Reinforcement and about 450 cu. yds. of Concrete, and sundry minor incidentals.

Plans and specifications may be obtained of Frank McGalliard, Chairman Water-Works Committee, Bridgeton, New Jersey.

WM. T. BARKER,
(Signed) ROBERT A. CRAIG,
FRANK McGALLIARD,
15-2t Water-Works Committee.

CIVIL SERVICE EXAMINATIONS—NEW YORK STATE.

Examinations will be held April 27th, 1907, for the following positions which are open to residents and non-residents of the State.

Assistant Civil Engineer..$5.00 to $6.00 a day
Bridge Designer ..... $1,500 to $2,100
Civil Engineering Draftsman .....$4.00 to $5.00 a day
Junior Bridge Draftsman. $900 to $1,200
Leveler .....$4.50 to $5.00 a day
Rodman .....$3.50 to $4.00 a day

For further particulars and application blank, address

CHIEF EXAMINER,
State Civil Service Commission,
15-1t Albany, N. Y.

SEWERS.

Sealed proposals will be received at the Council Chamber at Sandersville, Ga., until three P. M., April 29th, for furnishing all materials and constructing about six miles of 8" to 15" sewer, with manholes, flushtanks, etc.

For information and specifications, address the Consulting Engineer. Plans and profiles may be seen in Atlanta.

D. L. CHEATHAM, Mayor.
Sandersville, Ga.
ARTHUR PEW, Cons. Engr.,
619-20 Temple Court, Atlanta, Ga.
15-2t

QUARTERMASTER'S OFFICE, Fort Oglethorpe, Ga., April 8, 1907.—Sealed proposals in triplicate will be received until 11 a. m., May 8, 1907, for screening public buildings at Fort Oglethorpe, Ga. Information furnished on application to this office. Envelopes containing proposals should be indorsed "Proposals for Screening ... Buildings at Fort Oglethorpe, Ga." Address H. D. BERKELEY, Capt. and Quartermaster.
15-4t

DEPARTMENT OF THE INTERIOR, UNITED STATES RECLAMATION SERVICE, Washington, D. C., April 5, 1907.—Sealed proposals will be received at the office of the United States Reclamation Service, Huntley, Montana, until 2 o'clock p. m., April 24, 1907, for furnishing about 900,000 pounds of steel for reinforcement in concrete. For specifications and forms of proposal address the United States Reclamation Service, Washington, D. C., or Huntley, Montana.
JAMES RUDOLPH GARFIELD, Secretary.
15-2t

OFFICE OF THE COMMISSIONERS, D. C., Washington, D. C., April 6, 1907.—Sealed proposals will be received at this office until 12 o'clock noon, Saturday, April 20, 1907, for the construction of a concrete-steel bridge on the line of Monroe Street extended across the track of the Baltimore and Ohio Railroad Company, Anacostia, D. C. Blank forms of proposal, specifications and all necessary information may be obtained at Room 43, District Building. H. B. F. MACFARLAND, HENRY L. WEST, JOHN BIDDLE, Commissioners, D. C.
15-2t

PROPOSALS FOR FENCE.—Office Constructing Quartermaster, Prescott, Ariz., April 10, 1907.—Sealed proposals for construction of post fence, Whipple Barracks, Arizona, will be received here until 3 p. m., May 10, 1907, and then opened. Information furnished on application. CHAS. C. WALCUTT, Jr., Capt. & A. Q. M.
15-2t

U. S. ENGINEER OFFICE, Milwaukee, Wis., March 30, 1907.—Sealed proposals for moving cribs, building crib breakwater, removing old pier and building pile pier at Manitowoc Harbor, Wis.; building crib breakwater at Sheboygan Harbor, Wis.; and constructing concrete superstructure and crib breakwater at Milwaukee Harbor, Wis., will be received here until 2 P. M., April 20, 1907, and then publicly opened. Information furnished on application. W. V. JUDSON, Major, Engrs.
15-3t

NOTICE TO CONTRACTORS.—Sealed bids for constructing a Washington-street Tunnel entrance and exit at Temple Place will be received by the undersigned until 12 o'clock M. of Tuesday, April 23, 1907. Plans can be seen and specifications and forms of contract can be obtained at 15 Beacon Street, 9th floor. The right to reject any and all bids, and to award the contract as is deemed to be for the best interest of the City of Boston is reserved. By order of the BOSTON TRANSIT COMMISSION, B. LEIGHTON BEAL, Secretary.
15-2t

DEPARTMENT OF THE INTERIOR, UNITED STATES RECLAMATION SERVICE, Washington, D. C., April 5, 1907.—Sealed proposals will be received at the office of the United States Reclamation Service, Washington, D. C., until 2 o'clock p. m., May 15, 1907, for furnishing the metal work of two sixty-foot span steel highway bridges f. o. b. cars at the manufacturer's shipping point. Particulars may be obtained from the Chief Engineer, United States Reclamation Service, Washington, D. C. JAMES RUDOLPH GARFIELD, Secretary.
15-3t

U. S. ENGINEER OFFICE, Newport, R. I., April 10, 1907.—Sealed proposals for constructing extension to breakwater at Point Judith, R. I., will be received here until 11 A. M., May 1, 1907, and then publicly opened. Information furnished on application. J. H. WILLARD, Lt.-Col., Engrs.
15-3t

SITUATIONS OPEN

STRUCTURAL AND MECHANICAL DRAFTSMEN by BERGEN POINT IRON WORKS, Bayonne, N. J. State experience and salary.
14-1t

WANTED.—Engineer to take charge of London office, one thoroughly experienced in taking contracts and in general business management. Men of technical knowledge, skilled in structural work (preferably in reinforced concrete) only need apply. Address "H. C. 15," Engineering News, New York.
15-2t

PLAIN LETTERING
By PROF. HENRY S. JACOBY.
Most comprehensive book on this subject. Contains standards of U. S. Engineer Corps, U. S. Geological and Geodetic Surveys, and Mississippi River Commission.
Cloth, 10 x 7 inches; 82 pages, Price $3.00.